



## SAR EVALUATION REPORT

**Applicant Name:**  
Samsung Electronics Co., Ltd.  
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Yeongtong-gu, Suwon-si  
Gyeonggi-do, 16677, Korea

**Date of Testing:**  
04/22/20 - 06/07/20  
**Test Site/Location:**  
PCTEST Lab, Columbia, MD, USA  
**Document Serial No.:**  
1M2004170065-01.A3L

**FCC ID:** **A3LSMN986U**

**APPLICANT:** **SAMSUNG ELECTRONICS CO., LTD.**

**DUT Type:** Portable Handset  
**Application Type:** Certification  
**FCC Rule Part(s):** CFR §2.1093  
**Model:** SM-N986U  
**Additional Model(s):** SM-N986U1

| Equipment Class                            | Band & Mode           | Tx Frequency          | SAR            |                     |                   |                    |
|--------------------------------------------|-----------------------|-----------------------|----------------|---------------------|-------------------|--------------------|
|                                            |                       |                       | 1g Head (W/kg) | 1g Body-Worn (W/kg) | 1g Hotspot (W/kg) | 10g Phabiet (W/kg) |
| PCE                                        | CDMA/EVDO BC10 (B20S) | 817.90 - 823.10 MHz   | 0.27           | 0.47                | 1.16              | N/A                |
| PCE                                        | CDMA/EVDO BC0 (B22H)  | 824.70 - 848.31 MHz   | 0.19           | 0.41                | 0.89              | N/A                |
| PCE                                        | PCS CDMA/EVDO         | 1851.25 - 1908.75 MHz | 0.12           | 0.68                | 1.10              | 3.03               |
| PCE                                        | GSM/GPRS/EDGE 850     | 824.20 - 848.80 MHz   | < 0.1          | 0.28                | 0.86              | N/A                |
| PCE                                        | GSM/GPRS/EDGE 1900    | 1850.20 - 1909.80 MHz | < 0.1          | 0.49                | 0.81              | 1.50               |
| PCE                                        | UMTS 850              | 826.40 - 846.60 MHz   | 0.16           | 0.37                | 0.72              | N/A                |
| PCE                                        | UMTS 1755             | 1712.4 - 1752.6 MHz   | 0.15           | 0.79                | 1.18              | 3.11               |
| PCE                                        | UMTS 1900             | 1852.4 - 1907.6 MHz   | 0.11           | 0.77                | 1.10              | 2.67               |
| PCE                                        | LTE Band 71           | 695.5 - 695.5 MHz     | 0.12           | 0.25                | 0.39              | N/A                |
| PCE                                        | LTE Band 12           | 699.7 - 715.3 MHz     | 0.13           | 0.25                | 0.42              | N/A                |
| PCE                                        | LTE Band 13           | 779.5 - 784.5 MHz     | 0.24           | 0.38                | 0.74              | N/A                |
| PCE                                        | LTE Band 14           | 790.5 - 795.5 MHz     | 0.19           | 0.43                | 0.88              | N/A                |
| PCE                                        | LTE Band 26 (Cell)    | 814.7 - 848.3 MHz     | 0.17           | 0.34                | 0.69              | N/A                |
| PCE                                        | LTE Band 5 (Cell)     | 824.7 - 848.3 MHz     | 0.19           | 0.39                | 0.68              | N/A                |
| PCE                                        | LTE Band 66 (AWS)     | 1710.7 - 1779.3 MHz   | 0.15           | 1.01                | 1.13              | 2.99               |
| PCE                                        | LTE Band 4 (AWS)      | 1710.7 - 1754.3 MHz   | N/A            | N/A                 | N/A               | N/A                |
| PCE                                        | LTE Band 25 (PCS)     | 1850.7 - 1914.3 MHz   | 0.13           | 0.83                | 1.17              | 3.14               |
| PCE                                        | LTE Band 2 (PCS)      | 1850.7 - 1909.3 MHz   | N/A            | N/A                 | N/A               | N/A                |
| PCE                                        | LTE Band 30           | 2307.5 - 2312.5 MHz   | < 0.1          | 0.53                | 1.04              | 2.91               |
| PCE                                        | LTE Band 7            | 2502.5 - 2597.5 MHz   | 0.13           | 0.47                | 0.97              | 1.82               |
| PCE                                        | LTE Band 48           | 3502.5 - 3697.5 MHz   | 0.51           | 0.36                | 0.85              | N/A                |
| PCE                                        | LTE Band 41           | 2498.5 - 2687.5 MHz   | < 0.1          | 0.32                | 0.47              | 2.68               |
| PCE                                        | LTE Band 38           | 2572.5 - 2617.5 MHz   | N/A            | N/A                 | N/A               | N/A                |
| PCE                                        | NR Band n71           | 695.5 - 695.5 MHz     | 0.13           | 0.23                | 0.37              | N/A                |
| PCE                                        | NR Band n12           | 701.5 - 713.5 MHz     | 0.13           | 0.23                | 0.40              | N/A                |
| PCE                                        | NR Band n5 (Cell)     | 826.5 - 846.5 MHz     | 0.18           | 0.31                | 0.68              | N/A                |
| PCE                                        | NR Band n66 (AWS)     | 1712.5 - 1777.5 MHz   | 0.15           | 1.04                | 1.16              | 2.73               |
| PCE                                        | NR Band n25 (PCS)     | 1852.5 - 1912.5 MHz   | 0.15           | 0.75                | 1.17              | 2.47               |
| PCE                                        | NR Band n2 (PCS)      | 1852.5 - 1907.5 MHz   | N/A            | N/A                 | N/A               | N/A                |
| PCE                                        | NR Band n41           | 2506.02 - 2679.99     | 0.78           | 0.10                | 0.53              | N/A                |
| DTS                                        | 2.4 GHz WLAN          | 2412 - 2462 MHz       | 0.89           | 0.19                | 0.49              | N/A                |
| Nil                                        | U-NB-1                | 5180 - 5240 MHz       | N/A            | N/A                 | N/A               | N/A                |
| Nil                                        | U-NB-2A               | 5260 - 5320 MHz       | < 0.1          | 0.25                | N/A               | 1.70               |
| Nil                                        | U-NB-2C               | 5500 - 5720 MHz       | < 0.1          | 0.41                | N/A               | 2.19               |
| Nil                                        | U-NB-3                | 5740 - 5825 MHz       | < 0.1          | 0.39                | 0.59              | N/A                |
| DSS/DTS                                    | Bluetooth             | 2402 - 2480 MHz       | 0.59           | < 0.1               | 0.40              | N/A                |
| Simultaneous SAR per KDB 690783 D01v01r03: |                       |                       | 1.51           | 1.59                | 1.59              | 3.92               |

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 1.9 of this report; for North American frequency bands only.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them. Test results reported herein relate only to the item(s) tested.

  
Randy Ortanez  
President



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|                                      |                                                                                                                     |                                                                                       |                                        |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                   | <br><b>SAR EVALUATION REPORT</b> |  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                  | DUT Type:<br>Portable Handset                                                         | Page 1 of 305                          |

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|                                             |                                                                                                                                                                                                                                 |                                      |                                                                                       |                                        |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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# 1 DEVICE UNDER TEST

## 1.1 Device Overview

| Band & Mode           | Operating Modes | Tx Frequency          |
|-----------------------|-----------------|-----------------------|
| CDMA/EVDO BC10 (§90S) | Voice/Data      | 817.90 - 823.10 MHz   |
| CDMA/EVDO BC0 (§22H)  | Voice/Data      | 824.70 - 848.31 MHz   |
| PCS CDMA/EVDO         | Voice/Data      | 1851.25 - 1908.75 MHz |
| GSM/GPRS/EDGE 850     | Voice/Data      | 824.20 - 848.80 MHz   |
| GSM/GPRS/EDGE 1900    | Voice/Data      | 1850.20 - 1909.80 MHz |
| UMTS 850              | Voice/Data      | 826.40 - 846.60 MHz   |
| UMTS 1750             | Voice/Data      | 1712.4 - 1752.6 MHz   |
| UMTS 1900             | Voice/Data      | 1852.4 - 1907.6 MHz   |
| LTE Band 71           | Voice/Data      | 665.5 - 695.5 MHz     |
| LTE Band 12           | Voice/Data      | 699.7 - 715.3 MHz     |
| LTE Band 13           | Voice/Data      | 779.5 - 784.5 MHz     |
| LTE Band 14           | Voice/Data      | 790.5 - 795.5 MHz     |
| LTE Band 26 (Cell)    | Voice/Data      | 814.7 - 848.3 MHz     |
| LTE Band 5 (Cell)     | Voice/Data      | 824.7 - 848.3 MHz     |
| LTE Band 66 (AWS)     | Voice/Data      | 1710.7 - 1779.3 MHz   |
| LTE Band 4 (AWS)      | Voice/Data      | 1710.7 - 1754.3 MHz   |
| LTE Band 25 (PCS)     | Voice/Data      | 1850.7 - 1914.3 MHz   |
| LTE Band 2 (PCS)      | Voice/Data      | 1850.7 - 1909.3 MHz   |
| LTE Band 30           | Voice/Data      | 2307.5 - 2312.5 MHz   |
| LTE Band 7            | Voice/Data      | 2502.5 - 2567.5 MHz   |
| LTE Band 48           | Voice/Data      | 3552.5 - 3697.5 MHz   |
| LTE Band 41           | Voice/Data      | 2498.5 - 2687.5 MHz   |
| LTE Band 38           | Voice/Data      | 2572.5 - 2617.5 MHz   |
| NR Band n71           | Data            | 665.5 - 695.5 MHz     |
| NR Band n12           | Data            | 701.5 - 713.5 MHz     |
| NR Band n5            | Data            | 826.5 - 846.5 MHz     |
| NR Band n66           | Data            | 1712.5 - 1777.5 MHz   |
| NR Band n25           | Data            | 1852.5 - 1912.5 MHz   |
| NR Band n2            | Data            | 1852.5 - 1907.5 MHz   |
| NR Band n41           | Data            | 2506.02 - 2679.99 MHz |
| 2.4 GHz WLAN          | Voice/Data      | 2412 - 2462 MHz       |
| U-NII-1               | Voice/Data      | 5180 - 5240 MHz       |
| U-NII-2A              | Voice/Data      | 5260 - 5320 MHz       |
| U-NII-2C              | Voice/Data      | 5500 - 5720 MHz       |
| U-NII-3               | Voice/Data      | 5745 - 5825 MHz       |
| Bluetooth             | Data            | 2402 - 2480 MHz       |
| NFC                   | Data            | 13.56 MHz             |
| MST                   | Data            | 555 Hz - 8.33 kHz     |
| NR Band n260          | Data            | 37000 - 40000 MHz     |
| NR Band n261          | Data            | 27500 - 28350 MHz     |

## 1.2 Time-Averaging Algorithm for RF Exposure Compliance

The equipment under test (EUT) contains:

- Qualcomm® SM8250 modem supporting 2G/3G/4G WWAN technologies
- Qualcomm® SDX55M modem supporting 5G NR

Both of Qualcomm® SM8250 and SDX55M modems are enabled with Qualcomm® Smart Transmit feature. This feature performs time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® Smart Transmit feature (report SN could be found in Section 1.11 – Bibliography).

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 3 of 305                          |

Note that WLAN operations are not enabled with Smart Transmit.

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of  $SAR_{design\_target}$  or  $PD_{design\_target}$ , below the predefined time-averaged power limit (i.e.,  $P_{limit}$  for sub-6 radio, and  $input.power.limit$  for 5G mmW NR), for each characterized technology and band (see RF Exposure Part 0 Test Report, report SN could be found in Section 1.11 - Bibliography).

Smart Transmit allows the device to transmit at higher power instantaneously, as high as  $P_{max}$ , when needed, but enforces power limiting to maintain time-averaged transmit power to  $P_{limit}$ . Below table shows  $P_{limit}$  EFS settings and maximum tune up output power  $P_{max}$  configured for this EUT for various transmit conditions (Device State Index DSI). Note that the device uncertainty for sub-6GHz WWAN is 1.0dB for this EUT.

| Exposure Scenario:     |         | Body-Worn                                                            | Phablet  | Phablet | Head | Hotspot | Earjack | Maximum Tune-up Output Power* |
|------------------------|---------|----------------------------------------------------------------------|----------|---------|------|---------|---------|-------------------------------|
| Averaging Volume:      |         | 1g                                                                   | 10g      | 10g     | 1g   | 1g      | 10g     |                               |
| Spacing:               |         | 15 mm                                                                | 8, 6, 12 | 0 mm    | 0 mm | 10 mm   | 0 mm    |                               |
| DSI:                   |         | 0                                                                    | 0        | 1       | 2    | 3       | 4       |                               |
| Technology/Band        | Antenna | P <sub>limit</sub> corresponding to 1mW/g ( $SAR_{design\_target}$ ) |          |         |      |         |         | P <sub>max</sub>              |
| CDMA/EVDO BC10         | A       | 29.3                                                                 |          | 27.3    | 31.8 | 25.4    | 27.3    | 25.0                          |
| CDMA/EVDO BC0          | A       | 29.7                                                                 |          | 27.3    | 33.0 | 26.3    | 27.3    | 24.8                          |
| CDMA/EVDO BC1          | A       | 25.4                                                                 |          | 21.0    | 33.1 | 18.0    | 21.0    | 23.0                          |
| GSM/GPRS/EDGE 850 MHz  | A       | 29.9                                                                 |          | 29.1    | 37.5 | 26.7    | 29.1    | 25.3                          |
| GSM/GPRS/EDGE 1900 MHz | A       | 22.7                                                                 |          | 20.1    | 33.8 | 18.6    | 20.1    | 22.3                          |
| UMTS B5                | A       | 30.1                                                                 |          | 27.0    | 33.7 | 27.0    | 27.0    | 24.8                          |
| UMTS B4                | A       | 25.5                                                                 |          | 20.0    | 32.8 | 19.0    | 20.0    | 23.5                          |
| UMTS B2                | A       | 25.1                                                                 |          | 20.0    | 33.6 | 18.0    | 20.0    | 23.0                          |
| LTE FDD B71            | A       | 31.9                                                                 |          | 26.7    | 34.9 | 26.7    | 26.7    | 24.8                          |
| LTE FDD B12            | A       | 31.8                                                                 |          | 27.4    | 34.5 | 27.4    | 27.4    | 24.8                          |
| LTE FDD B13            | A       | 30.0                                                                 |          | 28.0    | 32.2 | 27.1    | 28.0    | 24.8                          |
| LTE FDD B14            | A       | 29.5                                                                 |          | 27.6    | 32.7 | 27.5    | 27.6    | 24.8                          |
| LTE FDD B26            | A       | 30.6                                                                 |          | 26.5    | 33.6 | 26.5    | 26.5    | 24.8                          |
| LTE FDD B5             | A       | 30.1                                                                 |          | 27.1    | 33.1 | 27.1    | 27.1    | 24.8                          |
| LTE FDD B66/4          | A       | 24.7                                                                 |          | 19.5    | 32.9 | 19.0    | 19.5    | 23.5                          |
| LTE FDD B25/2          | A       | 25.3                                                                 |          | 21.0    | 33.0 | 18.5    | 21.0    | 23.5                          |
| LTE FDD B30            | A       | 26.4                                                                 |          | 23.1    | 36.6 | 19.0    | 23.1    | 23.0                          |
| LTE FDD B7             | B       | 26.9                                                                 |          | 19.0    | 32.6 | 19.0    | 19.0    | 23.0                          |
| LTE TDD B48            | G       | 22.0                                                                 |          | 22.0    | 16.0 | 22.0    | 22.0    | 22.0                          |
| LTE TDD B41/38 PC3     | B       | 29.2                                                                 |          | 20.0    | 34.7 | 19.0    | 20.0    | 22.0                          |
| LTE TDD B41 PC2        | B       | 29.2                                                                 |          | 20.0    | 34.7 | 19.0    | 20.0    | 22.9                          |
| NR FDD n71             | A       | 31.7                                                                 |          | 28.5    | 34.4 | 28.5    | 28.5    | 24.5                          |
| NR FDD n12             | A       | 32.0                                                                 |          | 26.5    | 34.4 | 26.5    | 26.5    | 24.5                          |
| NR FDD n5              | A       | 30.6                                                                 |          | 28.1    | 32.9 | 27.2    | 28.1    | 24.5                          |
| NR FDD n66             | A       | 24.3                                                                 |          | 19.5    | 32.9 | 19.0    | 19.5    | 23.5                          |
| NR FDD n2/25           | A       | 25.7                                                                 |          | 19.5    | 32.8 | 18.0    | 19.5    | 23.5                          |
| NR TDD n41             | F       | 27.3                                                                 |          | 27.3    | 16.5 | 21.1    | 27.3    | 18.5                          |

\*Note all  $P_{limit}$  EFS and maximum tune up output power  $P_{max}$  levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes (for e.g., GSM & LTE TDD).

\*Maximum tune up output power  $P_{max}$  is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power + 1dB device design uncertainty.

The maximum time-averaged output power (dBm) for any 2G/3G/4G/5G Sub6 WWAN technology, band, and DSI = minimum of " $P_{limit}$  EFS" and "Maximum tune up output power  $P_{max}$ " + 1dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D01v06.

The purpose of this report (Part 1 test) is to demonstrate that the EUT meets FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels.

**Measurement Condition: All conducted power and SAR measurements in this report (Part 1 test) were performed by setting Reserve\_power\_margin (Smart Transmit EFS entry) to 0dB.**

|                                      |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 4 of 305                   |

### 1.3 Power Reduction for SAR

This device uses an independent fixed level power reduction mechanism for WLAN operations when 5G NR is active and also during all voice or VoIP held to ear scenarios. Per FCC Guidance, the held-to-ear exposure conditions were evaluated at reduced power according to the head SAR positions described in IEEE 1528-2013. Detailed descriptions of the power reduction mechanism are included in the operational description.

### 1.4 Nominal and Maximum Output Power Specifications

This device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D01v06.

#### 1.4.1 2G/3G/4G/5G Output Power

| CDMA BC10 (815 MHz)           |                   |                                         |            |            |
|-------------------------------|-------------------|-----------------------------------------|------------|------------|
| Power Level                   | Mode / Band       | Modulated Average Output Power (in dBm) |            |            |
|                               |                   | 1x-RTT                                  | EVDO Rev 0 | EVDO Rev A |
| Max (DSI = 0 - 4)             | Max allowed power | 26.0                                    | 26.0       | 26.0       |
|                               | Nominal           | 25.0                                    | 25.0       | 25.0       |
| CDMA BC0 (835 MHz)            |                   |                                         |            |            |
| Power Level                   | Mode / Band       | Modulated Average Output Power (in dBm) |            |            |
|                               |                   | 1x-RTT                                  | EVDO Rev 0 | EVDO Rev A |
| Max (DSI = 0 - 4)             | Max allowed power | 25.8                                    | 25.8       | 25.8       |
|                               | Nominal           | 24.8                                    | 24.8       | 24.8       |
| CDMA BC1 (1900 MHz)           |                   |                                         |            |            |
| Power Level                   | Mode / Band       | Modulated Average Output Power (in dBm) |            |            |
|                               |                   | 1x-RTT                                  | EVDO Rev 0 | EVDO Rev A |
| Max (DSI = 0 or 2)            | Max allowed power | 24.0                                    | 24.0       | 24.0       |
|                               | Nominal           | 23.0                                    | 23.0       | 23.0       |
| Earjack Active (DSI = 4)      | Max allowed power | 22.0                                    | 22.0       | 22.0       |
|                               | Nominal           | 21.0                                    | 21.0       | 21.0       |
| Hotspot Mode Active (DSI = 3) | Max allowed power | 19.0                                    | 19.0       | 19.0       |
|                               | Nominal           | 18.0                                    | 18.0       | 18.0       |
| Proximity Sensor (DSI = 1)    | Max allowed power | 22.0                                    | 22.0       | 22.0       |
|                               | Nominal           | 21.0                                    | 21.0       | 21.0       |

| GSM/GPRS/EDGE 850             |                   |                |                                    |            |            |            |                                     |            |            |            |
|-------------------------------|-------------------|----------------|------------------------------------|------------|------------|------------|-------------------------------------|------------|------------|------------|
| Power Level                   | Mode / Band       | Voice (in dBm) | Data - Burst Average GMSK (in dBm) |            |            |            | Data - Burst Average 8-PSK (in dBm) |            |            |            |
|                               |                   | 1 TX Slot      | 1 TX Slots                         | 2 TX Slots | 3 TX Slots | 4 TX Slots | 1 TX Slots                          | 2 TX Slots | 3 TX Slots | 4 TX Slots |
| Max (DSI = 0 - 4)             | Max allowed power | 33.5           | 33.5                               | 32.5       | 30.5       | 28.5       | 28.0                                | 26.0       | 24.0       | 23.0       |
|                               | Nominal           | 32.5           | 32.5                               | 31.5       | 29.5       | 27.5       | 27.0                                | 25.0       | 23.0       | 22.0       |
| GSM/GPRS/EDGE 1900            |                   |                |                                    |            |            |            |                                     |            |            |            |
| Power Level                   | Mode / Band       | Voice (in dBm) | Data - Burst Average GMSK (in dBm) |            |            |            | Data - Burst Average 8-PSK (in dBm) |            |            |            |
|                               |                   | 1 TX Slot      | 1 TX Slots                         | 2 TX Slots | 3 TX Slots | 4 TX Slots | 1 TX Slots                          | 2 TX Slots | 3 TX Slots | 4 TX Slots |
| Max (DSI = 0 or 2)            | Max allowed power | 30.5           | 30.5                               | 29.5       | 27.5       | 25.5       | 27.0                                | 25.0       | 23.0       | 22.0       |
|                               | Nominal           | 29.5           | 29.5                               | 28.5       | 26.5       | 24.5       | 26.0                                | 24.0       | 22.0       | 21.0       |
| Earjack Active (DSI = 4)      | Max allowed power | 30.3           | 30.3                               | 27.3       | 25.5       | 24.3       | 27.0                                | 25.0       | 23.0       | 22.0       |
|                               | Nominal           | 29.3           | 29.3                               | 26.3       | 24.5       | 23.3       | 26.0                                | 24.0       | 22.0       | 21.0       |
| Hotspot Mode Active (DSI = 3) | Max allowed power | N/A            | 28.8                               | 25.8       | 24.0       | 22.8       | 27.0                                | 25.0       | 23.0       | 22.0       |
|                               | Nominal           | N/A            | 27.8                               | 24.8       | 23.0       | 21.8       | 26.0                                | 24.0       | 22.0       | 21.0       |
| Proximity Sensor (DSI = 1)    | Max allowed power | 30.3           | 30.3                               | 27.3       | 25.5       | 24.3       | 27.0                                | 25.0       | 23.0       | 22.0       |
|                               | Nominal           | 29.3           | 29.3                               | 26.3       | 24.5       | 23.3       | 26.0                                | 24.0       | 22.0       | 21.0       |

For GSM, the above powers listed are GSM burst average values.

|                                      |                                                                                                                                                                                                                |                               |                                        |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                             | DUT Type:<br>Portable Handset | Page 5 of 305                          |

| UMTS Band 5 (850 MHz)            |                   |                                            |                     |                     |                           |
|----------------------------------|-------------------|--------------------------------------------|---------------------|---------------------|---------------------------|
| Power Level                      | Mode / Band       | Modulated Average Output Power<br>(in dBm) |                     |                     |                           |
|                                  |                   | 3GPP<br>WCDMA<br>Rel 99                    | 3GPP HSDPA<br>Rel 5 | 3GPP HSUPA<br>Rel 6 | 3GPP<br>DC-HSDPA<br>Rel 8 |
| Max (DSI = 0 - 4)                | Max allowed power | 25.8                                       | 24.8                | 24.8                | 24.8                      |
|                                  | Nominal           | 24.8                                       | 23.8                | 23.8                | 23.8                      |
| UMTS Band 4 (1750 MHz)           |                   |                                            |                     |                     |                           |
| Power Level                      | Mode / Band       | Modulated Average Output Power<br>(in dBm) |                     |                     |                           |
|                                  |                   | 3GPP<br>WCDMA<br>Rel 99                    | 3GPP HSDPA<br>Rel 5 | 3GPP HSUPA<br>Rel 6 | 3GPP<br>DC-HSDPA<br>Rel 8 |
| Max (DSI = 0 or 2)               | Max allowed power | 24.5                                       | 23.5                | 23.5                | 23.5                      |
|                                  | Nominal           | 23.5                                       | 22.5                | 22.5                | 22.5                      |
| Earjack Active (DSI = 4)         | Max allowed power | 21.0                                       | 20.0                | 20.0                | 20.0                      |
|                                  | Nominal           | 20.0                                       | 19.0                | 19.0                | 19.0                      |
| Hotspot Mode Active<br>(DSI = 3) | Max allowed power | 20.0                                       | 19.0                | 19.0                | 19.0                      |
|                                  | Nominal           | 19.0                                       | 18.0                | 18.0                | 18.0                      |
| Proximity Sensor (DSI = 1)       | Max allowed power | 21.0                                       | 20.0                | 20.0                | 20.0                      |
|                                  | Nominal           | 20.0                                       | 19.0                | 19.0                | 19.0                      |
| UMTS Band 2 (1900 MHz)           |                   |                                            |                     |                     |                           |
| Power Level                      | Mode / Band       | Modulated Average Output Power<br>(in dBm) |                     |                     |                           |
|                                  |                   | 3GPP<br>WCDMA<br>Rel 99                    | 3GPP HSDPA<br>Rel 5 | 3GPP HSUPA<br>Rel 6 | 3GPP<br>DC-HSDPA<br>Rel 8 |
| Max (DSI = 0 or 2)               | Max allowed power | 24.0                                       | 23.0                | 23.0                | 23.0                      |
|                                  | Nominal           | 23.0                                       | 22.0                | 22.0                | 22.0                      |
| Earjack Active (DSI = 4)         | Max allowed power | 21.0                                       | 20.0                | 20.0                | 20.0                      |
|                                  | Nominal           | 20.0                                       | 19.0                | 19.0                | 19.0                      |
| Hotspot Mode Active<br>(DSI = 3) | Max allowed power | 19.0                                       | 18.0                | 18.0                | 18.0                      |
|                                  | Nominal           | 18.0                                       | 17.0                | 17.0                | 17.0                      |
| Proximity Sensor (DSI = 1)       | Max allowed power | 21.0                                       | 20.0                | 20.0                | 20.0                      |
|                                  | Nominal           | 20.0                                       | 19.0                | 19.0                | 19.0                      |

|                                             |                                                                                                                                                          |                                      |                                                                                       |                                        |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the HARMAN group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                | <b>DUT Type:</b><br>Portable Handset | Page 6 of 305                                                                         |                                        |

| Mode / Band           |                   | Modulated Average Output Power (in dBm) |                           |                               |                          |                                   |
|-----------------------|-------------------|-----------------------------------------|---------------------------|-------------------------------|--------------------------|-----------------------------------|
|                       |                   | Max (DSI = 0)                           | RCV Mode Active (DSI = 2) | Hotspot Mode Active (DSI = 3) | Earjack Active (DSI = 4) | Proximity Sensor Active (DSI = 1) |
| LTE FDD Band 71       | Max allowed power | 25.8                                    | 25.8                      | 25.8                          | 25.8                     | 25.8                              |
|                       | Nominal           | 24.8                                    | 24.8                      | 24.8                          | 24.8                     | 24.8                              |
| LTE FDD Band 12       | Max allowed power | 25.8                                    | 25.8                      | 25.8                          | 25.8                     | 25.8                              |
|                       | Nominal           | 24.8                                    | 24.8                      | 24.8                          | 24.8                     | 24.8                              |
| LTE FDD Band 13       | Max allowed power | 25.8                                    | 25.8                      | 25.8                          | 25.8                     | 25.8                              |
|                       | Nominal           | 24.8                                    | 24.8                      | 24.8                          | 24.8                     | 24.8                              |
| LTE FDD Band 14       | Max allowed power | 25.8                                    | 25.8                      | 25.8                          | 25.8                     | 25.8                              |
|                       | Nominal           | 24.8                                    | 24.8                      | 24.8                          | 24.8                     | 24.8                              |
| LTE FDD Band 26       | Max allowed power | 25.8                                    | 25.8                      | 25.8                          | 25.8                     | 25.8                              |
|                       | Nominal           | 24.8                                    | 24.8                      | 24.8                          | 24.8                     | 24.8                              |
| LTE FDD Band 5        | Max allowed power | 25.8                                    | 25.8                      | 25.8                          | 25.8                     | 25.8                              |
|                       | Nominal           | 24.8                                    | 24.8                      | 24.8                          | 24.8                     | 24.8                              |
| LTE FDD Band 66       | Max allowed power | 24.5                                    | 24.5                      | 20.0                          | 20.5                     | 20.5                              |
|                       | Nominal           | 23.5                                    | 23.5                      | 19.0                          | 19.5                     | 19.5                              |
| LTE FDD Band 4        | Max allowed power | 24.5                                    | 24.5                      | 20.0                          | 20.5                     | 20.5                              |
|                       | Nominal           | 23.5                                    | 23.5                      | 19.0                          | 19.5                     | 19.5                              |
| LTE FDD Band 2        | Max allowed power | 24.5                                    | 24.5                      | 19.5                          | 22.0                     | 22.0                              |
|                       | Nominal           | 23.5                                    | 23.5                      | 18.5                          | 21.0                     | 21.0                              |
| LTE FDD Band 25       | Max allowed power | 24.5                                    | 24.5                      | 19.5                          | 22.0                     | 22.0                              |
|                       | Nominal           | 23.5                                    | 23.5                      | 18.5                          | 21.0                     | 21.0                              |
| LTE FDD Band 7        | Max allowed power | 24.0                                    | 24.0                      | 20.0                          | 20.0                     | 20.0                              |
|                       | Nominal           | 23.0                                    | 23.0                      | 19.0                          | 19.0                     | 19.0                              |
| LTE FDD Band 30       | Max allowed power | 24.0                                    | 24.0                      | 20.0                          | 24.0                     | 24.0                              |
|                       | Nominal           | 23.0                                    | 23.0                      | 19.0                          | 23.0                     | 23.0                              |
| LTE TDD Band 38       | Max allowed power | 25.0                                    | 25.0                      | 22.0                          | 23.0                     | 23.0                              |
|                       | Nominal           | 24.0                                    | 24.0                      | 21.0                          | 22.0                     | 22.0                              |
| LTE TDD Band 48       | Max allowed power | 25.0                                    | 19.0                      | 25.0                          | 25.0                     | 25.0                              |
|                       | Nominal           | 24.0                                    | 18.0                      | 24.0                          | 24.0                     | 24.0                              |
| LTE TDD Band 41 (PC2) | Max allowed power | 27.5                                    | 27.5                      | 23.6                          | 24.6                     | 24.6                              |
|                       | Nominal           | 26.5                                    | 26.5                      | 22.6                          | 23.6                     | 23.6                              |
| LTE TDD Band 41 (PC3) | Max allowed power | 25.0                                    | 25.0                      | 22.0                          | 23.0                     | 23.0                              |
|                       | Nominal           | 24.0                                    | 24.0                      | 21.0                          | 22.0                     | 22.0                              |
| Mode / Band           |                   | Modulated Average Output Power (in dBm) |                           |                               |                          |                                   |
|                       |                   | Max (DSI = 0)                           | RCV Mode Active (DSI = 2) | Hotspot Mode Active (DSI = 3) | Earjack Active (DSI = 4) | Proximity Sensor Active (DSI = 1) |
| NR FDD Band n71       | Max allowed power | 25.5                                    | 25.5                      | 25.5                          | 25.5                     | 25.5                              |
|                       | Nominal           | 24.5                                    | 24.5                      | 24.5                          | 24.5                     | 24.5                              |
| NR FDD Band n12       | Max allowed power | 25.5                                    | 25.5                      | 25.5                          | 25.5                     | 25.5                              |
|                       | Nominal           | 24.5                                    | 24.5                      | 24.5                          | 24.5                     | 24.5                              |
| NR FDD Band n5        | Max allowed power | 25.5                                    | 25.5                      | 25.5                          | 25.5                     | 25.5                              |
|                       | Nominal           | 24.5                                    | 24.5                      | 24.5                          | 24.5                     | 24.5                              |
| NR FDD Band n66       | Max allowed power | 24.5                                    | 24.5                      | 20.0                          | 20.5                     | 20.5                              |
|                       | Nominal           | 23.5                                    | 23.5                      | 19.0                          | 19.5                     | 19.5                              |
| NR FDD Band n25       | Max allowed power | 24.5                                    | 24.5                      | 19.0                          | 20.5                     | 20.5                              |
|                       | Nominal           | 23.5                                    | 23.5                      | 18.0                          | 19.5                     | 19.5                              |
| NR FDD Band n2        | Max allowed power | 24.5                                    | 24.5                      | 19.0                          | 20.5                     | 20.5                              |
|                       | Nominal           | 23.5                                    | 23.5                      | 18.0                          | 19.5                     | 19.5                              |
| NR TDD Band n41       | Max allowed power | 25.5                                    | 23.5                      | 25.5                          | 25.5                     | 25.5                              |
|                       | Nominal           | 24.5                                    | 22.5                      | 24.5                          | 24.5                     | 24.5                              |

For LTE TDD and NR TDD, the above powers listed are TDD burst average values.

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset | Page 7 of 305                                                                         |                                        |

## 1.4.2

## 2.4 GHz Maximum Bluetooth and SISO/MIMO WLAN Output Power

Note: Targets for 802.11ax RU operations can be found in Appendix H

| Mode                    | Band     | IEEE 802.11 (in dBm)  |      |         |      |                                   |                      |                                   |                      |                   |      |                                     |                      |                                     |                      |
|-------------------------|----------|-----------------------|------|---------|------|-----------------------------------|----------------------|-----------------------------------|----------------------|-------------------|------|-------------------------------------|----------------------|-------------------------------------|----------------------|
|                         |          | SISO                  |      |         |      |                                   |                      |                                   |                      | MIMO              |      |                                     |                      |                                     |                      |
|                         |          | Antenna 1 & Antenna 2 |      |         |      |                                   |                      |                                   |                      |                   |      |                                     |                      |                                     |                      |
|                         |          | b                     |      | g       |      | n                                 |                      | ax (SU)                           |                      | g<br>(CDD + STBC) |      | n                                   |                      | ax (SU)                             |                      |
| Nominal / Maximum Power |          | Nominal               | Max  | Nominal | Max  | Nominal                           | Max                  | Nominal                           | Max                  | Nominal           | Max  | Nominal                             | Max                  | Nominal                             | Max                  |
| 2.4 GHz WIFI            | 2.45 GHz | 19.5                  | 20.5 | 17.5    | 18.5 | 17.5<br>Ch 1: 15.5<br>Ch 11: 13.5 | 18.5<br>16.5<br>14.5 | 17.0<br>Ch 1: 15.5<br>Ch 11: 13.5 | 18.0<br>16.5<br>14.5 | 20.5              | 21.5 | 20.5<br>Ch. 1: 18.5<br>Ch. 11: 16.5 | 21.5<br>19.5<br>17.5 | 17.0<br>Ch. 1: 15.5<br>Ch. 11: 13.5 | 18.0<br>16.5<br>14.5 |

| Mode / Band                          |         | Modulated Average (dBm) |
|--------------------------------------|---------|-------------------------|
| Bluetooth                            | Maximum | 16.5                    |
|                                      | Nominal | 15.5                    |
| Bluetooth (EDR)                      | Maximum | 12.0                    |
|                                      | Nominal | 11.0                    |
| Bluetooth LE 2Mbps                   | Maximum | 9.0                     |
|                                      | Nominal | 8.0                     |
| Bluetooth LE 1 Bbps,<br>125/500 Kbps | Maximum | 7.5                     |
|                                      | Nominal | 6.5                     |

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset | Page 8 of 305                                                                         |                                        |



### 1.4.3

### 2.4 GHz Reduced WLAN Output Powers

Note: Targets for 802.11ax RU operations can be found in Appendix H

The below table is applicable in the following conditions:

- Head Conditions
- Simultaneous conditions with 5 GHz WLAN
- Simultaneous conditions with 5G NR and/or 5 GHz WLAN

| Mode                    | Band     | IEEE 802.11 (in dBm)  |      |         |      |             |      |             |      |                              |      |              |      |              |      |
|-------------------------|----------|-----------------------|------|---------|------|-------------|------|-------------|------|------------------------------|------|--------------|------|--------------|------|
|                         |          | SISO                  |      |         |      |             |      |             |      | MIMO                         |      |              |      |              |      |
|                         |          | Antenna 1 & Antenna 2 |      |         |      |             |      |             |      |                              |      |              |      |              |      |
|                         |          | b                     |      | g       |      | n           |      | ax (SU)     |      | <sup>g</sup><br>(CDD + STBC) |      | n            |      | ax (SU)      |      |
| Nominal / Maximum Power |          | Nominal               | Max  | Nominal | Max  | Nominal     | Max  | Nominal     | Max  | Nominal                      | Max  | Nominal      | Max  | Nominal      | Max  |
| 2.4 GHz WIFI            | 2.45 GHz | 15.0                  | 16.0 | 15.0    | 16.0 | 15.0        | 16.0 | 15.0        | 16.0 | 18.0                         | 19.0 | 18.0         | 19.0 | 17.0         | 18.0 |
|                         |          |                       |      |         |      | Ch 11: 13.5 | 14.5 | Ch 11: 13.5 | 14.5 |                              |      | Ch. 11: 16.5 | 17.5 | Ch. 11: 15.5 | 16.5 |
|                         |          |                       |      |         |      |             |      |             |      |                              |      |              |      | Ch. 11: 13.5 | 14.5 |

The below table is applicable in the following conditions:

- Head Conditions during simultaneous conditions with 5 GHz WLAN
- Head Conditions during simultaneous conditions with 5G NR and/or 5 GHz WLAN

| Mode                    | Band     | IEEE 802.11 (in dBm)  |      |         |      |         |      |         |      |                              |      |         |      |              |      |
|-------------------------|----------|-----------------------|------|---------|------|---------|------|---------|------|------------------------------|------|---------|------|--------------|------|
|                         |          | SISO                  |      |         |      |         |      |         |      | MIMO                         |      |         |      |              |      |
|                         |          | Antenna 1 & Antenna 2 |      |         |      |         |      |         |      |                              |      |         |      |              |      |
|                         |          | b                     |      | g       |      | n       |      | ax (SU) |      | <sup>g</sup><br>(CDD + STBC) |      | n       |      | ax (SU)      |      |
| Nominal / Maximum Power |          | Nominal               | Max  | Nominal | Max  | Nominal | Max  | Nominal | Max  | Nominal                      | Max  | Nominal | Max  | Nominal      | Max  |
| 2.4 GHz WIFI            | 2.45 GHz | 12.0                  | 13.0 | 12.0    | 13.0 | 12.0    | 13.0 | 12.0    | 13.0 | 15.0                         | 16.0 | 15.0    | 16.0 | 15.0         | 16.0 |
|                         |          |                       |      |         |      |         |      |         |      |                              |      |         |      | Ch. 11: 13.5 | 14.5 |

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 9 of 305                          |

## 1.4.4

## 5 GHz Maximum SISO/MIMO WLAN Output Power

Note: Targets for 802.11ax RU operations can be found in Appendix H

| Mode                    | Band     | IEEE 802.11 (in dBm)  |      |                      |              |                      |              |                      |              |                              |      |                      |              |                      |              |                      |              |
|-------------------------|----------|-----------------------|------|----------------------|--------------|----------------------|--------------|----------------------|--------------|------------------------------|------|----------------------|--------------|----------------------|--------------|----------------------|--------------|
|                         |          | SISO                  |      |                      |              |                      |              |                      |              | MIMO                         |      |                      |              |                      |              |                      |              |
|                         |          | Antenna 1 & Antenna 2 |      |                      |              |                      |              |                      |              |                              |      |                      |              |                      |              |                      |              |
|                         |          | a                     |      | n                    |              | ac                   |              | ax (SU)              |              | <sup>a</sup><br>(CDD + STBC) |      | n                    |              | ac                   |              | ax (SU)              |              |
| Nominal / Maximum Power |          | Nominal               | Max  | Nominal              | Max          | Nominal              | Max          | Nominal              | Max          | Nominal                      | Max  | Nominal              | Max          | Nominal              | Max          | Nominal              | Max          |
| 5 GHz WiFi (20MHz BW)   | 5200 MHz | 17.5                  | 18.5 | 17.5<br>Ch. 36: 16.5 | 18.5         | 17.5<br>Ch. 36: 16.5 | 18.5         | 17.0<br>Ch. 36: 16.0 | 18.0         | 20.5                         | 21.5 | 20.5<br>Ch. 36: 19.5 | 21.5         | 20.5<br>Ch. 36: 19.5 | 21.5         | 17.0<br>Ch. 36: 16.0 | 18.0         |
|                         | 5300 MHz | 17.5                  | 18.5 | 17.5<br>Ch. 64: 16.0 | 18.5         | 17.5<br>Ch. 64: 16.0 | 18.5         | 17.0                 | 18.0         | 20.5                         | 21.5 | 20.5<br>Ch. 64: 19.0 | 21.5         | 20.5<br>Ch. 64: 19.0 | 21.5         | 17.0<br>Ch. 64: 16.0 | 18.0         |
|                         | 5500 MHz | 17.5                  | 18.5 | 17.5                 | 18.5         | 17.5                 | 18.5         | 17.0                 | 18.0         | 20.5                         | 21.5 | 20.5                 | 21.5         | 20.5                 | 21.5         | 17.0                 | 18.0         |
|                         | 5800 MHz | 17.5                  | 18.5 | 17.5                 | 18.5         | 17.5                 | 18.5         | 17.0                 | 18.0         | 19.0                         | 20.0 | 19.0                 | 20.0         | 19.0                 | 20.0         | 17.0                 | 18.0         |
| 5 GHz WiFi (40MHz BW)   | 5200 MHz |                       |      | 16.5<br>Ch. 38: 13.0 | 17.5<br>14.0 | 16.5<br>Ch. 38: 13.0 | 17.5<br>14.0 | 16.0<br>Ch. 38: 15.0 | 17.0<br>16.0 |                              |      | 19.5<br>Ch. 38: 16.0 | 20.5<br>17.0 | 19.5<br>Ch. 38: 16.0 | 20.5<br>17.0 | 16.0<br>Ch. 38: 15.0 | 17.0<br>16.0 |
|                         | 5300 MHz |                       |      | 16.5<br>Ch. 62 14.0  | 17.5<br>15.0 | 16.5<br>Ch. 62 14.0  | 17.5<br>15.0 | 16.0<br>Ch. 62 15.0  | 17.0<br>16.0 |                              |      | 19.5<br>Ch. 62 17.0  | 20.5<br>18.0 | 19.5<br>Ch. 62 17.0  | 20.5<br>18.0 | 16.0<br>Ch. 62 14.0  | 17.0<br>15.0 |
|                         | 5500 MHz |                       |      | 16.5                 | 17.5         | 16.5                 | 17.5         | 16.0                 | 17.0         |                              |      | 19.5                 | 20.5         | 19.5                 | 20.5         | 16.0                 | 17.0         |
|                         | 5800 MHz |                       |      | 16.5                 | 17.5         | 16.5                 | 17.5         | 16.0                 | 17.0         |                              |      | 19.0                 | 20.0         | 19.0                 | 20.0         | 16.0                 | 17.0         |
| 5 GHz WiFi (80MHz BW)   | 5200 MHz |                       |      |                      |              | 13.5                 | 14.5         | 14.0                 | 15.0         |                              |      |                      |              | 16.5                 | 17.5         | 14.0                 | 15.0         |
|                         | 5300 MHz |                       |      |                      |              | 13.0                 | 14.0         | 14.0                 | 15.0         |                              |      |                      |              | 16.0                 | 17.0         | 14.0                 | 15.0         |
|                         | 5500 MHz |                       |      |                      |              | 15.5                 | 16.5         | 15.0                 | 16.0         |                              |      |                      |              | 18.5                 | 19.5         | 15.0                 | 16.0         |
|                         | 5800 MHz |                       |      |                      |              | 15.5                 | 16.5         | 15.0                 | 16.0         |                              |      |                      |              | 18.5                 | 19.5         | 15.0                 | 16.0         |

## 1.4.5

## 5 GHz Reduced WLAN Output Powers

Note: Targets for 802.11ax RU operations can be found in Appendix H

The below table is applicable in the following conditions:

- Head Conditions
- Simultaneous conditions with 2.4 GHz WLAN
- Simultaneous conditions with 5G NR and/or 2.4 GHz WLAN
- Head Conditions during simultaneous conditions with 2.4 GHz WLAN
- Head Conditions during simultaneous conditions with 5G NR and/or 2.4 GHz WLAN

| Mode                    | Band     | IEEE 802.11 (in dBm)  |         |      |         |      |         |         |         |                              |         |      |         |      |         |                      |      |
|-------------------------|----------|-----------------------|---------|------|---------|------|---------|---------|---------|------------------------------|---------|------|---------|------|---------|----------------------|------|
|                         |          | SISO                  |         |      |         |      |         |         |         | MIMO                         |         |      |         |      |         |                      |      |
|                         |          | Antenna 1 & Antenna 2 |         |      |         |      |         |         |         |                              |         |      |         |      |         |                      |      |
|                         |          | a                     |         | n    |         | ac   |         | ax (SU) |         | <sup>a</sup><br>(CDD + STBC) |         | n    |         | ac   |         | ax (SU)              |      |
| Nominal / Maximum Power | Nominal  | Max                   | Nominal | Max  | Nominal | Max  | Nominal | Max     | Nominal | Max                          | Nominal | Max  | Nominal | Max  | Nominal | Max                  |      |
| 5 GHz WiFi (20MHz BW)   | 5200 MHz | 12.0                  | 13.0    | 12.0 | 13.0    | 12.0 | 13.0    | 12.0    | 13.0    | 15.0                         | 16.0    | 15.0 | 16.0    | 15.0 | 16.0    | 15.0                 | 16.0 |
|                         | 5300 MHz | 12.0                  | 13.0    | 12.0 | 13.0    | 12.0 | 13.0    | 12.0    | 13.0    | 15.0                         | 16.0    | 15.0 | 16.0    | 15.0 | 16.0    | 15.0                 | 16.0 |
|                         | 5500 MHz | 12.0                  | 13.0    | 12.0 | 13.0    | 12.0 | 13.0    | 12.0    | 13.0    | 15.0                         | 16.0    | 15.0 | 16.0    | 15.0 | 16.0    | 15.0                 | 16.0 |
|                         | 5800 MHz | 12.0                  | 13.0    | 12.0 | 13.0    | 12.0 | 13.0    | 12.0    | 13.0    | 15.0                         | 16.0    | 15.0 | 16.0    | 15.0 | 16.0    | 15.0                 | 16.0 |
| 5 GHz WiFi (40MHz BW)   | 5200 MHz |                       |         | 12.0 | 13.0    | 12.0 | 13.0    | 12.0    | 13.0    |                              |         | 15.0 | 16.0    | 15.0 | 16.0    | 15.0                 | 16.0 |
|                         | 5300 MHz |                       |         | 12.0 | 13.0    | 12.0 | 13.0    | 12.0    | 13.0    |                              |         | 15.0 | 16.0    | 15.0 | 16.0    | 15.0<br>Ch. 62: 14.0 | 16.0 |
|                         | 5500 MHz |                       |         | 12.0 | 13.0    | 12.0 | 13.0    | 12.0    | 13.0    |                              |         | 15.0 | 16.0    | 15.0 | 16.0    | 15.0                 | 16.0 |
|                         | 5800 MHz |                       |         | 12.0 | 13.0    | 12.0 | 13.0    | 12.0    | 13.0    |                              |         | 15.0 | 16.0    | 15.0 | 16.0    | 15.0                 | 16.0 |
| 5 GHz WiFi (80MHz BW)   | 5200 MHz |                       |         |      |         | 12.0 | 13.0    | 12.0    | 13.0    |                              |         |      |         | 15.0 | 16.0    | 15.0                 | 16.0 |
|                         | 5300 MHz |                       |         |      |         | 12.0 | 13.0    | 12.0    | 13.0    |                              |         |      |         | 15.0 | 16.0    | 14.0                 | 15.0 |
|                         | 5500 MHz |                       |         |      |         | 12.0 | 13.0    | 12.0    | 13.0    |                              |         |      |         | 15.0 | 16.0    | 15.0                 | 16.0 |
|                         | 5800 MHz |                       |         |      |         | 12.0 | 13.0    | 12.0    | 13.0    |                              |         |      |         | 15.0 | 16.0    | 15.0                 | 16.0 |

|                                      |                                                                                                                                                                                                                |                               |                                        |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                             | DUT Type:<br>Portable Handset | Page 10 of 305                         |

## 1.5 DUT Antenna Locations

The overall dimensions of this device are > 9 x 5 cm. A diagram showing the location of the device antennas can be found in Appendix E. Since the diagonal dimension of this device is > 160 mm and <200 mm, it is considered a “phablet.”

**Table 1-1**  
**Device Edges/Sides for SAR Testing**

| Mode               | Back | Front | Top | Bottom | Right | Left |
|--------------------|------|-------|-----|--------|-------|------|
| EVDO BC10 (§90S)   | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| EVDO BC0 (§22H)    | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| PCS EVDO           | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| GPRS 850           | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| GPRS 1900          | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| UMTS 850           | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| UMTS 1750          | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| UMTS 1900          | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| LTE Band 71        | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| LTE Band 12        | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| LTE Band 13        | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| LTE Band 14        | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| LTE Band 26 (Cell) | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| LTE Band 5 (Cell)  | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| LTE Band 66 (AWS)  | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| LTE Band 25 (PCS)  | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| LTE Band 30        | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| LTE Band 7         | Yes  | Yes   | No  | Yes    | Yes   | No   |
| LTE Band 48        | Yes  | Yes   | Yes | No     | No    | Yes  |
| LTE Band 41        | Yes  | Yes   | No  | Yes    | Yes   | No   |
| NR Band n71        | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| NR Band n12        | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| NR Band n5 (Cell)  | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| NR Band n66 (AWS)  | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| NR Band n25 (PCS)  | Yes  | Yes   | No  | Yes    | Yes   | Yes  |
| NR Band n41        | Yes  | Yes   | Yes | No     | No    | Yes  |
| 2.4 GHz WLAN Ant 1 | Yes  | Yes   | Yes | No     | No    | Yes  |
| 2.4 GHz WLAN Ant 2 | Yes  | Yes   | Yes | No     | No    | Yes  |
| 5 GHz WLAN Ant 1   | Yes  | Yes   | Yes | No     | No    | Yes  |
| 5 GHz WLAN Ant 2   | Yes  | Yes   | Yes | No     | No    | Yes  |
| Bluetooth          | Yes  | Yes   | Yes | No     | No    | Yes  |

Note: Particular DUT edges were not required to be evaluated for wireless router SAR or phablet SAR if the edges were greater than 2.5 cm from the transmitting antenna according to FCC KDB Publication 941225 D06v02r01 Section III and FCC KDB Publication 648474 D04v01r03. The distances between the transmit antennas and the edges of the device are included in the filing. When wireless router mode is enabled, U-NII-1, U-NII-2A, U-NII-2C operations are disabled.

## 1.6 Near Field Communications (NFC) Antenna

This DUT has NFC operations. The NFC antenna is integrated into the device for this model. Therefore, all SAR tests were performed with the device which already incorporates the NFC antenna. A diagram showing the location of the NFC antenna can be found in Appendix E.

|                                             |                                                                                                                                                          |                                      |                                                                                       |                                        |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                | <b>DUT Type:</b><br>Portable Handset | Page 11 of 305                                                                        |                                        |

## 1.7 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D01v06, transmitters are considered to be operating simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds.

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D01v06 4.3.2 procedures.

**Table 1-2  
Simultaneous Transmission Scenarios**

| No. | Capable Transmit Configuration                         | Head             | Body-Worn Accessory | Wireless Router  | Phablet | Notes                                                                                                         |
|-----|--------------------------------------------------------|------------------|---------------------|------------------|---------|---------------------------------------------------------------------------------------------------------------|
| 1   | 1x CDMA voice + 2.4 GHz Wi-Fi                          | Yes              | Yes                 | N/A              | Yes     |                                                                                                               |
| 2   | 1x CDMA voice + 5 GHz Wi-Fi                            | Yes              | Yes                 | N/A              | Yes     |                                                                                                               |
| 3   | 1x CDMA voice + 2.4 GHz Bluetooth                      | Yes <sup>a</sup> | Yes                 | N/A              | Yes     | <sup>a</sup> Bluetooth Tethering is considered                                                                |
| 4   | 1x CDMA voice + 2.4 GHz Bluetooth + 5GHz Wi-Fi         | Yes <sup>a</sup> | Yes                 | N/A              | Yes     | <sup>a</sup> Bluetooth Tethering is considered                                                                |
| 5   | 1x CDMA voice + 2.4 GHz Wi-Fi MIMO                     | Yes              | Yes                 | N/A              | Yes     |                                                                                                               |
| 6   | 1x CDMA voice + 5 GHz Wi-Fi MIMO                       | Yes              | Yes                 | N/A              | Yes     |                                                                                                               |
| 7   | 1x CDMA voice + 2.4 GHz Wi-Fi + 5 GHz Wi-Fi            | Yes              | Yes                 | N/A              | Yes     |                                                                                                               |
| 8   | 1x CDMA voice + 2.4 GHz Wi-Fi MIMO + 5 GHz Wi-Fi MIMO  | Yes              | Yes                 | N/A              | Yes     |                                                                                                               |
| 9   | 1x CDMA voice + 2.4 GHz Bluetooth + 5GHz Wi-Fi MIMO    | Yes <sup>a</sup> | Yes                 | N/A              | Yes     | <sup>a</sup> Bluetooth Tethering is considered                                                                |
| 10  | GSM voice + 2.4 GHz Wi-Fi                              | Yes              | Yes                 | N/A              | Yes     |                                                                                                               |
| 11  | GSM voice + 5 GHz Wi-Fi                                | Yes              | Yes                 | N/A              | Yes     |                                                                                                               |
| 12  | GSM voice + 2.4 GHz Bluetooth                          | Yes <sup>a</sup> | Yes                 | N/A              | Yes     | <sup>a</sup> Bluetooth Tethering is considered                                                                |
| 13  | GSM voice + 2.4 GHz Bluetooth + 5GHz Wi-Fi             | Yes <sup>a</sup> | Yes                 | N/A              | Yes     | <sup>a</sup> Bluetooth Tethering is considered                                                                |
| 14  | GSM voice + 2.4 GHz Wi-Fi MIMO                         | Yes              | Yes                 | N/A              | Yes     |                                                                                                               |
| 15  | GSM voice + 5 GHz Wi-Fi MIMO                           | Yes              | Yes                 | N/A              | Yes     |                                                                                                               |
| 16  | GSM voice + 2.4 GHz Wi-Fi + 5 GHz Wi-Fi                | Yes              | Yes                 | N/A              | Yes     |                                                                                                               |
| 17  | GSM voice + 2.4 GHz Wi-Fi MIMO + 5 GHz Wi-Fi MIMO      | Yes              | Yes                 | N/A              | Yes     |                                                                                                               |
| 18  | GSM voice + 2.4 GHz Bluetooth + 5GHz Wi-Fi MIMO        | Yes <sup>a</sup> | Yes                 | N/A              | Yes     | <sup>a</sup> Bluetooth Tethering is considered                                                                |
| 19  | UMTS + 2.4 GHz Wi-Fi                                   | Yes              | Yes                 | Yes              | Yes     |                                                                                                               |
| 20  | UMTS + 5 GHz Wi-Fi                                     | Yes              | Yes                 | Yes              | Yes     |                                                                                                               |
| 21  | UMTS + 2.4 GHz Bluetooth                               | Yes <sup>a</sup> | Yes                 | Yes <sup>a</sup> | Yes     | <sup>a</sup> Bluetooth Tethering is considered                                                                |
| 22  | UMTS + 2.4 GHz Bluetooth + 5 GHz Wi-Fi                 | Yes <sup>a</sup> | Yes                 | Yes <sup>a</sup> | Yes     | <sup>a</sup> Bluetooth Tethering is considered                                                                |
| 23  | UMTS + 2.4 GHz Wi-Fi MIMO                              | Yes              | Yes                 | Yes              | Yes     |                                                                                                               |
| 24  | UMTS + 5 GHz Wi-Fi MIMO                                | Yes              | Yes                 | Yes              | Yes     |                                                                                                               |
| 25  | UMTS + 2.4 GHz Wi-Fi + 5 GHz Wi-Fi                     | Yes              | Yes                 | Yes              | Yes     |                                                                                                               |
| 26  | UMTS + 2.4 GHz Wi-Fi MIMO + 5 GHz Wi-Fi MIMO           | Yes              | Yes                 | Yes              | Yes     |                                                                                                               |
| 27  | UMTS + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO            | Yes <sup>a</sup> | Yes                 | Yes <sup>a</sup> | Yes     | <sup>a</sup> Bluetooth Tethering is considered                                                                |
| 28  | LTE + 5G NR                                            | Yes              | Yes                 | N/A              | Yes     |                                                                                                               |
| 29  | LTE + 2.4 GHz Wi-Fi                                    | Yes              | Yes                 | Yes              | Yes     |                                                                                                               |
| 30  | LTE + 2.4 GHz Wi-Fi + 5G NR                            | Yes              | Yes                 | Yes              | Yes     |                                                                                                               |
| 31  | LTE + 5 GHz Wi-Fi                                      | Yes              | Yes                 | Yes              | Yes     |                                                                                                               |
| 32  | LTE + 5 GHz Wi-Fi + 5G NR                              | Yes              | Yes                 | Yes              | Yes     |                                                                                                               |
| 33  | LTE + 2.4 GHz Bluetooth                                | Yes <sup>a</sup> | Yes                 | Yes <sup>a</sup> | Yes     | <sup>a</sup> Bluetooth Tethering is considered                                                                |
| 34  | LTE + 2.4 GHz Bluetooth + 5G NR                        | Yes <sup>a</sup> | Yes                 | Yes <sup>a</sup> | Yes     | <sup>a</sup> Bluetooth Tethering is considered                                                                |
| 35  | LTE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi                  | Yes <sup>a</sup> | Yes                 | Yes <sup>a</sup> | Yes     | <sup>a</sup> Bluetooth Tethering is considered                                                                |
| 36  | LTE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi + 5G NR          | Yes <sup>a</sup> | Yes                 | Yes <sup>a</sup> | Yes     | <sup>a</sup> Bluetooth Tethering is considered                                                                |
| 37  | LTE + 2.4 GHz Wi-Fi MIMO                               | Yes              | Yes                 | Yes              | Yes     |                                                                                                               |
| 38  | LTE + 2.4 GHz Wi-Fi MIMO + 5G NR                       | Yes              | Yes                 | Yes              | Yes     |                                                                                                               |
| 39  | LTE + 5 GHz Wi-Fi MIMO                                 | Yes              | Yes                 | Yes              | Yes     |                                                                                                               |
| 40  | LTE + 5 GHz Wi-Fi MIMO + 5G NR                         | Yes              | Yes                 | Yes              | Yes     |                                                                                                               |
| 41  | LTE + 2.4 GHz Wi-Fi + 5 GHz Wi-Fi                      | Yes              | Yes                 | Yes              | Yes     |                                                                                                               |
| 42  | LTE + 2.4 GHz Wi-Fi + 5 GHz Wi-Fi + 5G NR              | Yes              | Yes                 | Yes              | Yes     |                                                                                                               |
| 43  | LTE + 2.4 GHz Wi-Fi MIMO + 5 GHz Wi-Fi MIMO            | Yes              | Yes                 | Yes              | Yes     |                                                                                                               |
| 44  | LTE + 2.4 GHz Wi-Fi MIMO + 5 GHz Wi-Fi MIMO + 5G NR    | Yes              | Yes                 | Yes              | Yes     |                                                                                                               |
| 45  | LTE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO             | Yes <sup>a</sup> | Yes                 | Yes <sup>a</sup> | Yes     | <sup>a</sup> Bluetooth Tethering is considered                                                                |
| 46  | LTE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO + 5G NR     | Yes <sup>a</sup> | Yes                 | Yes <sup>a</sup> | Yes     | <sup>a</sup> Bluetooth Tethering is considered                                                                |
| 47  | CDMA/EVDO data + 2.4 GHz Wi-Fi                         | Yes <sup>a</sup> | Yes <sup>a</sup>    | Yes              | Yes     | <sup>a</sup> Pre-installed VOIP applications are considered                                                   |
| 48  | CDMA/EVDO data + 5 GHz Wi-Fi                           | Yes <sup>a</sup> | Yes <sup>a</sup>    | Yes              | Yes     | <sup>a</sup> Pre-installed VOIP applications are considered                                                   |
| 49  | CDMA/EVDO data + 2.4 GHz Bluetooth                     | Yes <sup>a</sup> | Yes <sup>a</sup>    | Yes <sup>a</sup> | Yes     | <sup>a</sup> Pre-installed VOIP applications are considered<br><sup>a</sup> Bluetooth Tethering is considered |
| 50  | CDMA/EVDO data + 2.4 GHz Bluetooth + 5 GHz Wi-Fi       | Yes <sup>a</sup> | Yes <sup>a</sup>    | Yes <sup>a</sup> | Yes     | <sup>a</sup> Pre-installed VOIP applications are considered<br><sup>a</sup> Bluetooth Tethering is considered |
| 51  | CDMA/EVDO data + 2.4 GHz Wi-Fi MIMO                    | Yes <sup>a</sup> | Yes <sup>a</sup>    | Yes              | Yes     | <sup>a</sup> Pre-installed VOIP applications are considered                                                   |
| 52  | CDMA/EVDO data + 5 GHz Wi-Fi MIMO                      | Yes <sup>a</sup> | Yes <sup>a</sup>    | Yes              | Yes     | <sup>a</sup> Pre-installed VOIP applications are considered                                                   |
| 53  | CDMA/EVDO data + 2.4 GHz Wi-Fi + 5 GHz Wi-Fi           | Yes <sup>a</sup> | Yes <sup>a</sup>    | Yes              | Yes     | <sup>a</sup> Pre-installed VOIP applications are considered                                                   |
| 54  | CDMA/EVDO data + 2.4 GHz Wi-Fi MIMO + 5 GHz Wi-Fi MIMO | Yes <sup>a</sup> | Yes <sup>a</sup>    | Yes              | Yes     | <sup>a</sup> Pre-installed VOIP applications are considered                                                   |
| 55  | CDMA/EVDO data + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO  | Yes <sup>a</sup> | Yes <sup>a</sup>    | Yes <sup>a</sup> | Yes     | <sup>a</sup> Pre-installed VOIP applications are considered<br><sup>a</sup> Bluetooth Tethering is considered |
| 56  | GPRS/EDGE + 2.4 GHz Wi-Fi                              | N/A              | N/A                 | Yes              | Yes     |                                                                                                               |
| 57  | GPRS/EDGE + 5 GHz Wi-Fi                                | N/A              | N/A                 | Yes              | Yes     |                                                                                                               |
| 58  | GPRS/EDGE + 2.4 GHz Bluetooth                          | N/A              | N/A                 | Yes <sup>a</sup> | Yes     | <sup>a</sup> Bluetooth Tethering is considered                                                                |
| 59  | GPRS/EDGE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi            | N/A              | N/A                 | Yes <sup>a</sup> | Yes     | <sup>a</sup> Bluetooth Tethering is considered                                                                |
| 60  | GPRS/EDGE + 2.4 GHz Wi-Fi MIMO                         | N/A              | N/A                 | Yes              | Yes     |                                                                                                               |
| 61  | GPRS/EDGE + 5 GHz Wi-Fi MIMO                           | N/A              | N/A                 | Yes              | Yes     |                                                                                                               |
| 62  | GPRS/EDGE + 2.4 GHz Wi-Fi + 5 GHz Wi-Fi                | N/A              | N/A                 | Yes              | Yes     |                                                                                                               |
| 63  | GPRS/EDGE + 2.4 GHz Wi-Fi MIMO + 5 GHz Wi-Fi MIMO      | N/A              | N/A                 | Yes              | Yes     |                                                                                                               |
| 64  | GPRS/EDGE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO       | N/A              | N/A                 | Yes <sup>a</sup> | Yes     | <sup>a</sup> Bluetooth Tethering is considered                                                                |

- 2.4 GHz WLAN and 2.4 GHz Bluetooth share the same antenna path and cannot transmit simultaneously.
- All licensed modes share the same antenna path and cannot transmit simultaneously.
- When the user utilizes multiple services in UMTS 3G mode it uses multi-Radio Access Bearer or multi-RAB. The power control is based on a physical control channel (Dedicated Physical Control Channel [DPCCH]) and power control will be adjusted to meet the needs of both services. Therefore, the UMTS+WLAN scenario also represents the UMTS Voice/DATA + WLAN Hotspot scenario.

|                                             |                                                                                                                                                                                                                  |                                      |                                                                                       |                                        |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                        | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 12 of 305                         |

4. Per the manufacturer, WIFI Direct is not expected to be used in conjunction with a held-to-ear or body-worn accessory voice call. Therefore, there are no simultaneous transmission scenarios involving WIFI direct beyond that listed in the above table.
5. 5 GHz Wireless Router is only supported for the U-NII-3 by S/W, therefore U-NII-1, U-NII2A, and U-NII2C were not evaluated for wireless router conditions.
6. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax. 802.11a/g/n/ac/ax supports CDD and STBC and 802.11n/ac/ax additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
7. This device supports VoWIFI.
8. This device supports Bluetooth Tethering.
9. This device supports VoLTE.
10. LTE + 5G NR FR1 Scenarios are limited to LTE Anchor Bands, LTE B2/5/12/13/30/48/66.
11. 5G NR FR2 n260 and n261 cannot transmit simultaneously.
12. LTE + 5G NR FR2 n260 and n261 operations are possible only with LTE 2/5/12/13/14/30/48/66 under EN-DC mode.

## 1.8 Miscellaneous SAR Test Considerations

### (A) WIFI/BT

Since U-NII-1 and U-NII-2A bands have the same maximum output power and the highest reported SAR for U-NII-2A is less than 1.2 W/kg, SAR is not required for U-NII-1 band according to FCC KDB Publication 248227 D01v02r02.

Since Wireless Router operations are not allowed by the chipset firmware using U-NII-1, U-NII-2A & U-NII-2C WIFI, only 2.4 GHz WLAN, 2.4 GHz Bluetooth, and U-NII-3 WIFI Hotspot SAR tests and combinations are considered for SAR with respect to Wireless Router configurations according to FCC KDB 941225 D06v02r01.

This device supports IEEE 802.11ax with the following features:

- a) Up to 80 MHz Bandwidth only for 5 GHz
- b) Up to 20 MHz Bandwidth only for 2.4 GHz
- c) No aggregate channel configurations
- d) 2 Tx antenna output
- e) Up to 1024 QAM is supported
- f) TDWR and Band gap channels are supported for 5 GHz
- g) MU-MIMO UL Operations are not supported

Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the diagonal dimension is greater than 160mm and less than 200mm. Phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg. Because wireless router operations are not supported for U-NII-1, U-NII-2A & U-NII-2C WLAN, phablet SAR tests were performed. Phablet SAR was not evaluated for 2.4 GHz WLAN, 2.4 GHz Bluetooth, and U-NII-3 WLAN operations since wireless router 1g SAR was < 1.2 W/kg.

Per April 2019 TCB Workshop Notes, SAR testing was not required for 802.11ax when applying the initial test configuration procedures of KDB 248227, with 802.11ax considered a higher order 802.11 mode.

|                                             |                                                                                                                                                                                                                             |                                      |                                                                                       |                                        |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                   | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 13 of 305                         |

## (B) Licensed Transmitter(s)

GSM/GPRS/EDGE DTM is not supported for US bands. Therefore, the GSM Voice modes in this report do not transmit simultaneously with GPRS/EDGE Data.

This device is only capable of QPSK HSUPA in the uplink. Therefore, no additional SAR tests are required beyond that described for devices with HSUPA in KDB 941225 D01v03r01.

LTE SAR for the higher modulations and lower bandwidths were not tested since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth; and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg for all configurations according to FCC KDB 941225 D05v02r04.

CDMA 1X Advanced technology was not required for SAR since the maximum allowed output powers for 1x Advanced was not more than 0.25 dB higher than the maximum powers for 1x and the measured SAR in any 1x mode exposure conditions was not greater than 1.2 W/kg per FCC KDB Publication 941225 D01v03r01.

This device supports LTE Carrier Aggregation (CA) in the downlink. All uplink communications are identical to Release 8 specifications. Per FCC KDB Publication 941225 D05A v01r02, SAR for LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive. The downlink carrier aggregation exclusion analysis can be found in Appendix F.

Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the diagonal dimension is greater than 160mm and less than 200mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg.

This device supports downlink 4x4 MIMO operations for some LTE Bands. Per May 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum average output power in 4x4 DL MIMO mode was not more than 0.25 dB higher than the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum average output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

This device supports LTE capabilities with overlapping transmission frequency ranges. When the supported frequency range of an LTE Band falls completely within an LTE band with a larger transmission frequency range, both LTE bands have the same target power (or the band with the larger transmission frequency range has a higher target power), and both LTE bands share the same transmission path and signal characteristics, SAR was only assessed for the band with the larger transmission frequency range.

This device supports both Power Class 2 (PC2) and Power Class 3 (PC3) for LTE Band 41. Per May 2017 TCB Workshop Notes, SAR tests were performed with Power Class 3 (given the specific UL/DL limitations for Power Class 2). Additionally, SAR testing for the power class condition was evaluated for the highest configuration in Power Class 3 for each test configuration to confirm the results were scalable linearly (See Section 14.2).

This device supports LTE Carrier Aggregation (CA) for LTE Band 5, LTE Band 66, LTE Band 48, and LTE Band 41 with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per 2017 Fall TCB Workshop Notes.

This device supports 64QAM and 256QAM on the uplink and 256QAM on the downlink for LTE Operations. Conducted powers for 64QAM and 256QAM uplink configurations were measured per Section 5.1 of FCC KDB Publication 941225D05v02r05. SAR was not required for 64QAM or 256QAM since the highest

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 14 of 305                         |

maximum output power for 64QAM and 256QAM is  $\leq \frac{1}{2}$  dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is  $\leq 1.45\text{W/kg}$ , per Section 5.2.4 of FCC KDB Publication 941225 D05v02r05.

This device supports 5G NR for Bands n260, and n261. RF Exposure assessment and simultaneous transmission analysis for these bands can be found in the Near Field PD Report (report SN can be found in Section 1.11 – Bibliography).

NR implementation of n71, n12, n5, n66, n2, n25, and n41 is limited to EN-DC operations only, with LTE Band 2/66/5/12/13/30/48 acting as the anchor band. Per FCC Guidance, SAR tests were performed separately for NR Bands and LTE Anchor Bands. Please see Section 11 for more details.

## 1.9 Guidance Applied

- IEEE 1528-2013
- FCC KDB Publication 941225 D01v03r01, D05v02r04, D05Av01r02, D06v02r01 (2G/3G/4G and Hotspot)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D01v06 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 648474 D04v01r03 (Phablet Procedures)
- FCC KDB Publication 616217 D04v01r02 (Proximity Sensor)
- October 2013 TCB Workshop Notes (GPRS Testing Considerations)
- May 2017 TCB Workshop Notes (LTE 4x4 Downlink MIMO, LTE Band 41 Power Class 2/3)
- April 2018 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (IEEE 802.11ax, Dynamic Antenna Tuning)

## 1.10 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 11.

## 1.11 Bibliography

| Report Type                           | Report Serial Number |
|---------------------------------------|----------------------|
| PD Exposure Part 0 Test Report        | Revision B.          |
| Near Field PD Report (Part 1)         | 1M2004170065-22.A3L  |
| RF Exposure Part 0 Test Report        | 1M2004170065-24.A3L  |
| RF Exposure Part 2 Test Report        | 1M2004170065-25.A3L  |
| RF Exposure Compliance Summary Report | 1M2004170065-26.A3L  |

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 15 of 305                         |



| LTE Information                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                 |                |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------|----------------|
| Form Factor                                                                                                    | Portable Handset                                                                                                                                                                                                                                                                                                                                                                                                                          |                |                 |                |
| Frequency Range of each LTE transmission band                                                                  | LTE Band 71 (665.5 - 695.5 MHz)                                                                                                                                                                                                                                                                                                                                                                                                           |                |                 |                |
|                                                                                                                | LTE Band 12 (699.7 - 715.3 MHz)                                                                                                                                                                                                                                                                                                                                                                                                           |                |                 |                |
|                                                                                                                | LTE Band 13 (779.5 - 784.5 MHz)                                                                                                                                                                                                                                                                                                                                                                                                           |                |                 |                |
|                                                                                                                | LTE Band 14 (790.5 - 795.5 MHz)                                                                                                                                                                                                                                                                                                                                                                                                           |                |                 |                |
|                                                                                                                | LTE Band 26 (Cell) (814.7 - 848.3 MHz)                                                                                                                                                                                                                                                                                                                                                                                                    |                |                 |                |
|                                                                                                                | LTE Band 5 (Cell) (824.7 - 848.3 MHz)                                                                                                                                                                                                                                                                                                                                                                                                     |                |                 |                |
|                                                                                                                | LTE Band 66 (AWS) (1710.7 - 1773.3 MHz)                                                                                                                                                                                                                                                                                                                                                                                                   |                |                 |                |
|                                                                                                                | LTE Band 4 (AWS) (1710.7 - 1754.3 MHz)                                                                                                                                                                                                                                                                                                                                                                                                    |                |                 |                |
|                                                                                                                | LTE Band 25 (PCS) (1850.7 - 1914.3 MHz)                                                                                                                                                                                                                                                                                                                                                                                                   |                |                 |                |
|                                                                                                                | LTE Band 2 (PCS) (1850.7 - 1909.3 MHz)                                                                                                                                                                                                                                                                                                                                                                                                    |                |                 |                |
|                                                                                                                | LTE Band 30 (2307.5 - 2312.5 MHz)                                                                                                                                                                                                                                                                                                                                                                                                         |                |                 |                |
|                                                                                                                | LTE Band 7 (2502.5 - 2567.5 MHz)                                                                                                                                                                                                                                                                                                                                                                                                          |                |                 |                |
|                                                                                                                | LTE Band 48 (3552.5 - 3697.5 MHz)                                                                                                                                                                                                                                                                                                                                                                                                         |                |                 |                |
|                                                                                                                | LTE Band 41 (2498.5 - 2687.5 MHz)                                                                                                                                                                                                                                                                                                                                                                                                         |                |                 |                |
|                                                                                                                | LTE Band 38 (2572.5 - 2617.5 MHz)                                                                                                                                                                                                                                                                                                                                                                                                         |                |                 |                |
| Channel Bandwidths                                                                                             | LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                                                                                                                                                                                                                                                                                                                                                |                |                 |                |
|                                                                                                                | LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz                                                                                                                                                                                                                                                                                                                                                                                                |                |                 |                |
|                                                                                                                | LTE Band 13: 5 MHz, 10 MHz                                                                                                                                                                                                                                                                                                                                                                                                                |                |                 |                |
|                                                                                                                | LTE Band 14: 5 MHz, 10 MHz                                                                                                                                                                                                                                                                                                                                                                                                                |                |                 |                |
|                                                                                                                | LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz                                                                                                                                                                                                                                                                                                                                                                                 |                |                 |                |
|                                                                                                                | LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz                                                                                                                                                                                                                                                                                                                                                                                          |                |                 |                |
|                                                                                                                | LTE Band 66 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                                                                                                                                                                                                                                                                                                                          |                |                 |                |
|                                                                                                                | LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                                                                                                                                                                                                                                                                                                                           |                |                 |                |
|                                                                                                                | LTE Band 25 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                                                                                                                                                                                                                                                                                                                          |                |                 |                |
|                                                                                                                | LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                                                                                                                                                                                                                                                                                                                           |                |                 |                |
|                                                                                                                | LTE Band 30: 5 MHz, 10 MHz                                                                                                                                                                                                                                                                                                                                                                                                                |                |                 |                |
|                                                                                                                | LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                                                                                                                                                                                                                                                                                                                                                 |                |                 |                |
|                                                                                                                | LTE Band 48: 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                                                                                                                                                                                                                                                                                                                                                |                |                 |                |
|                                                                                                                | LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                                                                                                                                                                                                                                                                                                                                                |                |                 |                |
|                                                                                                                | LTE Band 38: 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                                                                                                                                                                                                                                                                                                                                                |                |                 |                |
| Channel Numbers and Frequencies (MHz)                                                                          | Low                                                                                                                                                                                                                                                                                                                                                                                                                                       | Low-Mid        | Mid             | Mid-High       |
|                                                                                                                | High                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |                 |                |
| LTE Band 71: 5 MHz                                                                                             | 665.5 (133147)                                                                                                                                                                                                                                                                                                                                                                                                                            | 680.5 (133297) | 695.5 (133447)  |                |
| LTE Band 71: 10 MHz                                                                                            | 668 (133172)                                                                                                                                                                                                                                                                                                                                                                                                                              | 680.5 (133297) | 693 (133422)    |                |
| LTE Band 71: 15 MHz                                                                                            | 670.5 (133197)                                                                                                                                                                                                                                                                                                                                                                                                                            | 680.5 (133297) | 690.5 (133397)  |                |
| LTE Band 71: 20 MHz                                                                                            | 673 (133222)                                                                                                                                                                                                                                                                                                                                                                                                                              | 680.5 (133297) | 688 (133372)    |                |
| LTE Band 12: 1.4 MHz                                                                                           | 699.7 (23017)                                                                                                                                                                                                                                                                                                                                                                                                                             | 707.5 (23095)  | 715.3 (23173)   |                |
| LTE Band 12: 3 MHz                                                                                             | 700.5 (23025)                                                                                                                                                                                                                                                                                                                                                                                                                             | 707.5 (23095)  | 714.5 (23165)   |                |
| LTE Band 12: 5 MHz                                                                                             | 701.5 (23035)                                                                                                                                                                                                                                                                                                                                                                                                                             | 707.5 (23095)  | 713.5 (23155)   |                |
| LTE Band 12: 10 MHz                                                                                            | 704 (23060)                                                                                                                                                                                                                                                                                                                                                                                                                               | 707.5 (23095)  | 711 (23130)     |                |
| LTE Band 13: 5 MHz                                                                                             | 779.5 (23205)                                                                                                                                                                                                                                                                                                                                                                                                                             | 782 (23230)    | 784.5 (23255)   |                |
| LTE Band 13: 10 MHz                                                                                            | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                       | 782 (23230)    | N/A             |                |
| LTE Band 14: 5 MHz                                                                                             | 790.5 (23305)                                                                                                                                                                                                                                                                                                                                                                                                                             | 793 (23330)    | 795.5 (23355)   |                |
| LTE Band 14: 10 MHz                                                                                            | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                       | 793 (23330)    | N/A             |                |
| LTE Band 26 (Cell): 1.4 MHz                                                                                    | 814.7 (26897)                                                                                                                                                                                                                                                                                                                                                                                                                             | 831.5 (26865)  | 848.3 (27033)   |                |
| LTE Band 26 (Cell): 3 MHz                                                                                      | 815.5 (26705)                                                                                                                                                                                                                                                                                                                                                                                                                             | 831.5 (26865)  | 847.5 (27025)   |                |
| LTE Band 26 (Cell): 5 MHz                                                                                      | 816.5 (26715)                                                                                                                                                                                                                                                                                                                                                                                                                             | 831.5 (26865)  | 846.5 (27015)   |                |
| LTE Band 26 (Cell): 10 MHz                                                                                     | 819 (26740)                                                                                                                                                                                                                                                                                                                                                                                                                               | 831.5 (26865)  | 844 (26990)     |                |
| LTE Band 26 (Cell): 15 MHz                                                                                     | 821.5 (26765)                                                                                                                                                                                                                                                                                                                                                                                                                             | 831.5 (26865)  | 841.5 (26965)   |                |
| LTE Band 5 (Cell): 1.4 MHz                                                                                     | 824.7 (20407)                                                                                                                                                                                                                                                                                                                                                                                                                             | 836.5 (20525)  | 848.3 (20643)   |                |
| LTE Band 5 (Cell): 3 MHz                                                                                       | 825.5 (20415)                                                                                                                                                                                                                                                                                                                                                                                                                             | 836.5 (20525)  | 847.5 (20635)   |                |
| LTE Band 5 (Cell): 5 MHz                                                                                       | 826.5 (20425)                                                                                                                                                                                                                                                                                                                                                                                                                             | 836.5 (20525)  | 846.5 (20625)   |                |
| LTE Band 5 (Cell): 10 MHz                                                                                      | 829 (20450)                                                                                                                                                                                                                                                                                                                                                                                                                               | 836.5 (20525)  | 844 (20600)     |                |
| LTE Band 66 (AWS): 1.4 MHz                                                                                     | 1710.7 (131979)                                                                                                                                                                                                                                                                                                                                                                                                                           | 1745 (132322)  | 1779.3 (132665) |                |
| LTE Band 66 (AWS): 3 MHz                                                                                       | 1711.5 (131987)                                                                                                                                                                                                                                                                                                                                                                                                                           | 1745 (132322)  | 1778.5 (132657) |                |
| LTE Band 66 (AWS): 5 MHz                                                                                       | 1712.5 (131997)                                                                                                                                                                                                                                                                                                                                                                                                                           | 1745 (132322)  | 1777.5 (132647) |                |
| LTE Band 66 (AWS): 10 MHz                                                                                      | 1715 (132022)                                                                                                                                                                                                                                                                                                                                                                                                                             | 1745 (132322)  | 1775 (132622)   |                |
| LTE Band 66 (AWS): 15 MHz                                                                                      | 1715.5 (132047)                                                                                                                                                                                                                                                                                                                                                                                                                           | 1745 (132322)  | 1772.5 (132597) |                |
| LTE Band 66 (AWS): 20 MHz                                                                                      | 1720 (132072)                                                                                                                                                                                                                                                                                                                                                                                                                             | 1745 (132322)  | 1770 (132572)   |                |
| LTE Band 4 (AWS): 1.4 MHz                                                                                      | 1710.7 (19957)                                                                                                                                                                                                                                                                                                                                                                                                                            | 1732.5 (20175) | 1754.3 (20393)  |                |
| LTE Band 4 (AWS): 3 MHz                                                                                        | 1711.5 (19965)                                                                                                                                                                                                                                                                                                                                                                                                                            | 1732.5 (20175) | 1753.5 (20385)  |                |
| LTE Band 4 (AWS): 5 MHz                                                                                        | 1712.5 (19975)                                                                                                                                                                                                                                                                                                                                                                                                                            | 1732.5 (20175) | 1752.5 (20375)  |                |
| LTE Band 4 (AWS): 10 MHz                                                                                       | 1715 (20000)                                                                                                                                                                                                                                                                                                                                                                                                                              | 1732.5 (20175) | 1750 (20350)    |                |
| LTE Band 4 (AWS): 15 MHz                                                                                       | 1717.5 (20025)                                                                                                                                                                                                                                                                                                                                                                                                                            | 1732.5 (20175) | 1747.5 (20325)  |                |
| LTE Band 4 (AWS): 20 MHz                                                                                       | 1720 (20050)                                                                                                                                                                                                                                                                                                                                                                                                                              | 1732.5 (20175) | 1745 (20300)    |                |
| LTE Band 25 (PCS): 1.4 MHz                                                                                     | 1850.7 (26047)                                                                                                                                                                                                                                                                                                                                                                                                                            | 1882.5 (26365) | 1914.3 (26683)  |                |
| LTE Band 25 (PCS): 3 MHz                                                                                       | 1851.5 (26055)                                                                                                                                                                                                                                                                                                                                                                                                                            | 1882.5 (26365) | 1913.5 (26675)  |                |
| LTE Band 25 (PCS): 5 MHz                                                                                       | 1852.5 (26065)                                                                                                                                                                                                                                                                                                                                                                                                                            | 1882.5 (26365) | 1912.5 (26665)  |                |
| LTE Band 25 (PCS): 10 MHz                                                                                      | 1855 (26090)                                                                                                                                                                                                                                                                                                                                                                                                                              | 1882.5 (26365) | 1910 (26640)    |                |
| LTE Band 25 (PCS): 15 MHz                                                                                      | 1857.5 (26115)                                                                                                                                                                                                                                                                                                                                                                                                                            | 1882.5 (26365) | 1907.5 (26615)  |                |
| LTE Band 25 (PCS): 20 MHz                                                                                      | 1860 (26140)                                                                                                                                                                                                                                                                                                                                                                                                                              | 1882.5 (26365) | 1905 (26590)    |                |
| LTE Band 2 (PCS): 1.4 MHz                                                                                      | 1850.7 (18607)                                                                                                                                                                                                                                                                                                                                                                                                                            | 1880 (18900)   | 1909.3 (19193)  |                |
| LTE Band 2 (PCS): 3 MHz                                                                                        | 1851.5 (18615)                                                                                                                                                                                                                                                                                                                                                                                                                            | 1880 (18900)   | 1908.5 (19185)  |                |
| LTE Band 2 (PCS): 5 MHz                                                                                        | 1852.5 (18625)                                                                                                                                                                                                                                                                                                                                                                                                                            | 1880 (18900)   | 1907.5 (19175)  |                |
| LTE Band 2 (PCS): 10 MHz                                                                                       | 1855 (18650)                                                                                                                                                                                                                                                                                                                                                                                                                              | 1880 (18900)   | 1905 (19150)    |                |
| LTE Band 2 (PCS): 15 MHz                                                                                       | 1857.5 (18675)                                                                                                                                                                                                                                                                                                                                                                                                                            | 1880 (18900)   | 1902.5 (19125)  |                |
| LTE Band 2 (PCS): 20 MHz                                                                                       | 1860 (18700)                                                                                                                                                                                                                                                                                                                                                                                                                              | 1880 (18900)   | 1900 (19100)    |                |
| LTE Band 30: 5 MHz                                                                                             | 2307.5 (27685)                                                                                                                                                                                                                                                                                                                                                                                                                            | 2310 (27710)   | 2312.5 (27735)  |                |
| LTE Band 30: 10 MHz                                                                                            | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2310 (27710)   | N/A             |                |
| LTE Band 7: 5 MHz                                                                                              | 2502.5 (20775)                                                                                                                                                                                                                                                                                                                                                                                                                            | 2535 (21100)   | 2567.5 (21425)  |                |
| LTE Band 7: 10 MHz                                                                                             | 2505 (20800)                                                                                                                                                                                                                                                                                                                                                                                                                              | 2535 (21100)   | 2565 (21400)    |                |
| LTE Band 7: 15 MHz                                                                                             | 2507.5 (20825)                                                                                                                                                                                                                                                                                                                                                                                                                            | 2535 (21100)   | 2562.5 (21375)  |                |
| LTE Band 7: 20 MHz                                                                                             | 2510 (20850)                                                                                                                                                                                                                                                                                                                                                                                                                              | 2535 (21100)   | 2560 (21350)    |                |
| LTE Band 48: 5 MHz                                                                                             | 3552.5 (55295)                                                                                                                                                                                                                                                                                                                                                                                                                            | 3600.8 (55748) | N/A             | 3649.2 (56232) |
| LTE Band 48: 10 MHz                                                                                            | 3555 (55290)                                                                                                                                                                                                                                                                                                                                                                                                                              | 3601.7 (55757) | N/A             | 3648.3 (56223) |
| LTE Band 48: 15 MHz                                                                                            | 3557.5 (55315)                                                                                                                                                                                                                                                                                                                                                                                                                            | 3602.5 (55765) | N/A             | 3647.5 (56215) |
| LTE Band 48: 20 MHz                                                                                            | 3560 (55340)                                                                                                                                                                                                                                                                                                                                                                                                                              | 3603.3 (55773) | N/A             | 3646.7 (56207) |
| LTE Band 41: 5 MHz                                                                                             | 2506 (39750)                                                                                                                                                                                                                                                                                                                                                                                                                              | 2549.5 (40185) | 2593 (40620)    | 2636.5 (41055) |
| LTE Band 41: 10 MHz                                                                                            | 2506 (39750)                                                                                                                                                                                                                                                                                                                                                                                                                              | 2549.5 (40185) | 2593 (40620)    | 2636.5 (41055) |
| LTE Band 41: 15 MHz                                                                                            | 2506 (39750)                                                                                                                                                                                                                                                                                                                                                                                                                              | 2549.5 (40185) | 2593 (40620)    | 2636.5 (41055) |
| LTE Band 41: 20 MHz                                                                                            | 2506 (39750)                                                                                                                                                                                                                                                                                                                                                                                                                              | 2549.5 (40185) | 2593 (40620)    | 2636.5 (41055) |
| LTE Band 38: 5 MHz                                                                                             | 2572.5 (37775)                                                                                                                                                                                                                                                                                                                                                                                                                            | 2595 (38000)   | 2617.5 (38225)  |                |
| LTE Band 38: 10 MHz                                                                                            | 2575 (37800)                                                                                                                                                                                                                                                                                                                                                                                                                              | 2595 (38000)   | 2615 (38200)    |                |
| LTE Band 38: 15 MHz                                                                                            | 2577.5 (37825)                                                                                                                                                                                                                                                                                                                                                                                                                            | 2595 (38000)   | 2612.5 (38175)  |                |
| LTE Band 38: 20 MHz                                                                                            | 2580 (37850)                                                                                                                                                                                                                                                                                                                                                                                                                              | 2595 (38000)   | 2610 (38150)    |                |
| UE Category                                                                                                    | DL UE Cat 20, UL UE Cat 18                                                                                                                                                                                                                                                                                                                                                                                                                |                |                 |                |
| Modulations Supported in UL                                                                                    | QPSK, 16QAM, 64QAM, 256QAM                                                                                                                                                                                                                                                                                                                                                                                                                |                |                 |                |
| LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.5? (manufacturer attestation is required) | YES                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                 |                |
| A-MPR (Additional MPR) disabled for SAR Testing?                                                               | YES                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                 |                |
| LTE Carrier Aggregation Possible Combinations                                                                  | The technical description includes all the possible carrier aggregation combinations                                                                                                                                                                                                                                                                                                                                                      |                |                 |                |
| LTE Additional Information                                                                                     | This device does not support full CA features on 3GPP Release 16. It supports carrier aggregation, downlink MIMO, LAA features as shown in Section 9 and Appendix F. All uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC. The following LTE Release 16 Features are not supported: Relay, HetNet, Enhanced MIMO, eICIC, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA. |                |                 |                |

FCC ID: A3LSMN986U



## SAR EVALUATION REPORT



Approved by:  
Quality Manager

Document S/N:

Test Dates:

DUT Type:

1M2004170065-01.A3L

04/22/20 - 06/07/20

Portable Handset

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| NR Information                                    |                                                                                             |                  |                  |                  |                  |
|---------------------------------------------------|---------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|
| Form Factor                                       | Portable Handset                                                                            |                  |                  |                  |                  |
| Frequency Range of each NR transmission band      | NR Band n71 (2507.5 - 2562.5 MHz)                                                           |                  |                  |                  |                  |
|                                                   | NR Band n12 (701.5 - 713.5 MHz)                                                             |                  |                  |                  |                  |
|                                                   | NR Band n5 (Cell) (826.5 - 846.5 MHz)                                                       |                  |                  |                  |                  |
|                                                   | NR Band n66 (AWS) (1712.5 - 1777.5 MHz)                                                     |                  |                  |                  |                  |
|                                                   | NR Band n25 (PCS) (1852.5 - 1912.5 MHz)                                                     |                  |                  |                  |                  |
|                                                   | NR Band n2 (PCS) (1852.5 - 1907.5 MHz)                                                      |                  |                  |                  |                  |
|                                                   | NR Band n41 (2506.02 - 2679.99 MHz)                                                         |                  |                  |                  |                  |
| Channel Bandwidths                                | NR Band n71: 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                  |                  |                  |                  |                  |
|                                                   | NR Band n12: 5 MHz, 10 MHz, 15 MHz                                                          |                  |                  |                  |                  |
|                                                   | NR Band n5 (Cell): 5 MHz, 10 MHz, 15 MHz, 20 MHz                                            |                  |                  |                  |                  |
|                                                   | NR Band n66 (AWS): 5 MHz, 10 MHz, 15 MHz, 20 MHz                                            |                  |                  |                  |                  |
|                                                   | NR Band n25 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz                                            |                  |                  |                  |                  |
|                                                   | NR Band n2 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz                                             |                  |                  |                  |                  |
|                                                   | NR Band n41: 20 MHz, 30 MHz, 40 MHz, 60 MHz, 80 MHz, 90 MHz, 100 MHz                        |                  |                  |                  |                  |
| Channel Numbers and Frequencies (MHz)             | Low                                                                                         | Low-Mid          | Mid              | Mid-High         | High             |
| NR Band n71: 5 MHz                                | 665.5 (133147)                                                                              |                  | 680.5 (133297)   |                  | 695.5 (133447)   |
| NR Band n71: 10 MHz                               | 668 (133600)                                                                                |                  | 680.5 (136100)   |                  | 693 (138600)     |
| NR Band n71: 15 MHz                               | 670.5 (134100)                                                                              |                  | 680.5 (136100)   |                  | 690.5 (138100)   |
| NR Band n71: 20 MHz                               | 673 (134600)                                                                                |                  | 680.5 (136100)   |                  | 688 (137600)     |
| NR Band n12: 5 MHz                                | 701.5 (140300)                                                                              |                  | 707.5 (141500)   |                  | 713.5 (142700)   |
| NR Band n12: 10 MHz                               | 704 (140800)                                                                                |                  | 707.5 (141500)   |                  | 711 (142200)     |
| NR Band n12: 15 MHz                               | 706.5 (141300)                                                                              |                  | 707.5 (141500)   |                  | 708.5 (141700)   |
| NR Band n5 (Cell): 5 MHz                          | 826.5 (165300)                                                                              |                  | 836.5 (167300)   |                  | 846.5 (169300)   |
| NR Band n5 (Cell): 10 MHz                         | 829 (165800)                                                                                |                  | 836.5 (167300)   |                  | 844 (168800)     |
| NR Band n5 (Cell): 15 MHz                         | 831.5 (166300)                                                                              |                  | 836.5 (167300)   |                  | 841.5 (168300)   |
| NR Band n5 (Cell): 20 MHz                         | 834 (166800)                                                                                |                  | 836.5 (167300)   |                  | 839 (167800)     |
| NR Band n66 (AWS): 5 MHz                          | 1712.5 (342500)                                                                             |                  | 1745 (349000)    |                  | 1777.5 (355500)  |
| NR Band n66 (AWS): 10 MHz                         | 1715 (343000)                                                                               |                  | 1745 (349000)    |                  | 1775 (355000)    |
| NR Band n66 (AWS): 15 MHz                         | 1717.5 (343500)                                                                             |                  | 1745 (349000)    |                  | 1772.5 (354500)  |
| NR Band n66 (AWS): 20 MHz                         | 1720 (344000)                                                                               |                  | 1745 (349000)    |                  | 1770 (354000)    |
| NR Band n25 (PCS): 5 MHz                          | 1852.5 (370500)                                                                             |                  | 1882.5 (376500)  |                  | 1912.5 (382500)  |
| NR Band n25 (PCS): 10 MHz                         | 1855 (371000)                                                                               |                  | 1882.5 (376500)  |                  | 1910 (382000)    |
| NR Band n25 (PCS): 15 MHz                         | 1857.5 (371500)                                                                             |                  | 1882.5 (376500)  |                  | 1907.5 (381500)  |
| NR Band n25 (PCS): 20 MHz                         | 1860 (372000)                                                                               |                  | 1882.5 (376500)  |                  | 1905 (381000)    |
| NR Band n2 (PCS): 5 MHz                           | 1852.5 (386500)                                                                             |                  | 1880 (392000)    |                  | 1907.5 (397500)  |
| NR Band n2 (PCS): 10 MHz                          | 1855 (387000)                                                                               |                  | 1880 (392000)    |                  | 1905 (397000)    |
| NR Band n2 (PCS): 15 MHz                          | 1857.5 (387500)                                                                             |                  | 1880 (392000)    |                  | 1902.5 (396500)  |
| NR Band n2 (PCS): 20 MHz                          | 1860 (388000)                                                                               |                  | 1880 (392000)    |                  | 1900 (396000)    |
| NR Band n41: 20 MHz                               | 2506.02 (501204)                                                                            | 2549.49 (509898) | 2592.99 (518598) | 2636.49 (527298) | 2679.99 (536998) |
| NR Band n41: 30 MHz                               | 2511 (502200)                                                                               | 2552.01 (510402) | 2592.99 (518598) | 2634 (526800)    | 2674.98 (534996) |
| NR Band n41: 40 MHz                               | 2516.01 (503202)                                                                            | 2567.34 (513468) | N/A              | 2618.67 (523734) | 2670 (534000)    |
| NR Band n41: 60 MHz                               | 2526 (505200)                                                                               |                  | 2592.99 (518598) |                  | 2659.98 (531996) |
| NR Band n41: 80 MHz                               | 2536.02 (507204)                                                                            |                  | N/A              |                  | 2649.99 (529998) |
| NR Band n41: 90 MHz                               | 2541 (508200)                                                                               |                  | N/A              |                  | 2644.98 (528996) |
| NR Band n41: 100 MHz                              | 2546.01 (509202)                                                                            |                  | 2592.99 (518598) |                  | 2640 (528000)    |
| SCS for NR Band n71/n12/n5/n66/n25/n2             | 15 kHz                                                                                      |                  |                  |                  |                  |
| SCS for NR Band n41                               | 30 kHz                                                                                      |                  |                  |                  |                  |
| Modulations Supported in UL                       | DFT-s-OFDM: $\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM<br>CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM |                  |                  |                  |                  |
| NR MPR Permanently implemented per 3GPP TS 38.101 | YES                                                                                         |                  |                  |                  |                  |
| A-MPR (Additional MPR) disabled for SAR Testing?  | YES                                                                                         |                  |                  |                  |                  |
| EN-DC Carrier Aggregation Possible Combinations   | The technical description includes all the possible carrier aggregation combinations        |                  |                  |                  |                  |
| LTE Anchor Bands for NR Band n71                  | LTE Band 2/66                                                                               |                  |                  |                  |                  |
| LTE Anchor Bands for NR Band n12                  | LTE Band 2/66                                                                               |                  |                  |                  |                  |
| LTE Anchor Bands for NR Band n5 (Cell)            | LTE Band 2/30/66                                                                            |                  |                  |                  |                  |
| LTE Anchor Bands for NR Band n66 (AWS)            | LTE Band 5/12/13/48                                                                         |                  |                  |                  |                  |
| LTE Anchor Bands for NR Band n25 (PCS)            | LTE Band 12                                                                                 |                  |                  |                  |                  |
| LTE Anchor Bands for NR Band n2 (PCS)             | LTE Band 5/12/13                                                                            |                  |                  |                  |                  |
| LTE Anchor Bands for NR Band n41                  | LTE Band 2/66                                                                               |                  |                  |                  |                  |

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
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### 3 INTRODUCTION

The FCC and Innovation, Science, and Economic Development Canada have adopted the guidelines for evaluating the environmental effects of radio frequency (RF) radiation in ET Docket 93-62 on Aug. 6, 1996 and Health Canada Safety Code 6 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices. [1]

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz [3] and Health Canada RF Exposure Guidelines Safety Code 6 [22]. The measurement procedure described in IEEE/ANSI C95.3-2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave [4] is used for guidance in measuring the Specific Absorption Rate (SAR) due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the International Committee for Non-Ionizing Radiation Protection (ICNIRP) in Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields,” Report No. Vol 74. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

#### 3.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 3-1).

**Equation 3-1**  
**SAR Mathematical Equation**

$$SAR = \frac{d}{dt} \left( \frac{dU}{dm} \right) = \frac{d}{dt} \left( \frac{dU}{\rho dv} \right)$$

**SAR is expressed in units of Watts per Kilogram (W/kg).**

$$SAR = \frac{\sigma \cdot E^2}{\rho}$$

where:

- σ = conductivity of the tissue-simulating material (S/m)
- ρ = mass density of the tissue-simulating material (kg/m<sup>3</sup>)
- E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
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## 4 DOSIMETRIC ASSESSMENT

### 4.1 Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013:

1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 4-1) and IEEE 1528-2013.
2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.
3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 4-1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):
  - a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 4-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
  - b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the “Not a knot” condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
  - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

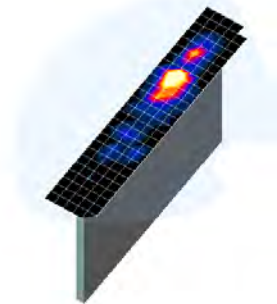


**Figure 4-1**  
**Sample SAR Area Scan**

**Table 4-1**  
**Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04\***

| Frequency | Maximum Area Scan Resolution (mm)<br>( $\Delta x_{3\text{area}}, \Delta y_{3\text{area}}$ ) | Maximum Zoom Scan Resolution (mm)<br>( $\Delta x_{\text{zoomTV}}, \Delta y_{\text{zoom}}$ ) | Maximum Zoom Scan Spatial Resolution (mm) |                             |                                      | Minimum Zoom Scan Volume (mm)<br>(x,y,z) |
|-----------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------|--------------------------------------|------------------------------------------|
|           |                                                                                             |                                                                                             | Uniform Grid                              | Graded Grid                 |                                      |                                          |
|           |                                                                                             |                                                                                             |                                           | $\Delta z_{\text{zoom}}(n)$ | $\Delta z_{\text{zoom}}(1)^*$        |                                          |
| ≤ 2 GHz   | ≤ 15                                                                                        | ≤ 8                                                                                         | ≤ 5                                       | ≤ 4                         | ≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$ | ≥ 30                                     |
| 2-3 GHz   | ≤ 12                                                                                        | ≤ 5                                                                                         | ≤ 5                                       | ≤ 4                         | ≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$ | ≥ 30                                     |
| 3-4 GHz   | ≤ 12                                                                                        | ≤ 5                                                                                         | ≤ 4                                       | ≤ 3                         | ≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$ | ≥ 28                                     |
| 4-5 GHz   | ≤ 10                                                                                        | ≤ 4                                                                                         | ≤ 3                                       | ≤ 2.5                       | ≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$ | ≥ 25                                     |
| 5-6 GHz   | ≤ 10                                                                                        | ≤ 4                                                                                         | ≤ 2                                       | ≤ 2                         | ≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$ | ≥ 22                                     |

\*Also compliant to IEEE 1528-2013 Table 6

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
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### 5.1 EAR REFERENCE POINT

Figure 5-2 shows the front, back and side views of the SAM Twin Phantom. The point “M” is the reference point for the center of the mouth, “LE” is the left ear reference point (ERP), and “RE” is the right ERP. The ERP is 15mm posterior to the entrance to the ear canal (EEC) along the B-M line (Back-Mouth), as shown in Figure 5-1. The plane passing through the two ear canals and M is defined as the Reference Plane. The line N-F (Neck-Front), also called the Reference Pivoting Line, is not perpendicular to the reference plane (see Figure 5-1). Line B-M is perpendicular to the N-F line. Both N-F and B-M lines are marked on the external phantom shell to facilitate handset positioning [5].

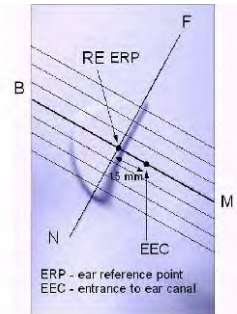


**Figure 5-1**  
Close-Up Side view  
of ERP

### 5.2 HANDSET REFERENCE POINTS

Two imaginary lines on the handset were established: the vertical centerline and the horizontal line. The test device was placed in a normal operating position with the acoustic output located along the “vertical centerline” on the front of the device aligned to the “ear reference point” (See Figure 5-3). The acoustic output was then located at the same level as the center of the ear reference point. The test device was positioned so that the “vertical centerline” was bisecting the front surface of the handset at its top and bottom edges, positioning the “ear reference point” on the outer surface of the both the left and right head phantoms on the ear reference point.



**Figure 5-2**  
Front, back and side view of SAM Twin Phantom

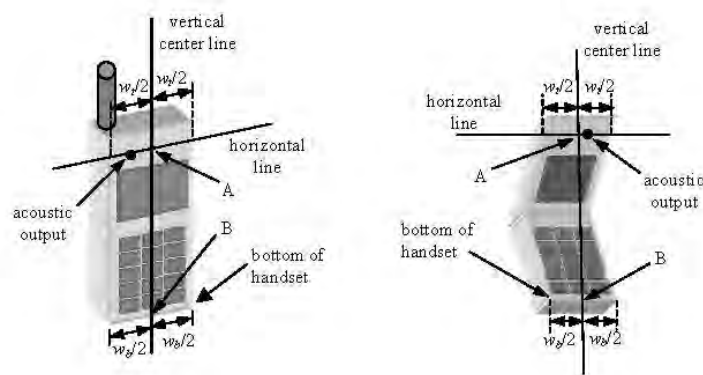


**Figure 5-3**  
Handset Vertical Center & Horizontal Line Reference Points

|                                      |                                                                                                                                                                                                                |                               |                                        |
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## 6 TEST CONFIGURATION POSITIONS

### 6.1 Device Holder

The device holder is made out of low-loss POM material having the following dielectric parameters: relative permittivity  $\epsilon = 3$  and loss tangent  $\delta = 0.02$ .

### 6.2 Positioning for Cheek

1. The test device was positioned with the device close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 6-1), such that the plane defined by the vertical center line and the horizontal line of the phone is approximately parallel to the sagittal plane of the phantom.



Figure 6-1 Front, Side and Top View of Cheek Position

2. The handset was translated towards the phantom along the line passing through RE & LE until the handset touches the pinna.
3. While maintaining the handset in this plane, the handset was rotated around the LE-RE line until the vertical centerline was in the reference plane.
4. The phone was then rotated around the vertical centerline until the phone (horizontal line) was symmetrical with respect to the line NF.
5. While maintaining the vertical centerline in the reference plane, keeping point A on the line passing through RE and LE, and maintaining the device contact with the ear, the device was rotated about the NF line until any point on the handset made contact with a phantom point below the ear (cheek) (See Figure 6-2).

### 6.3 Positioning for Ear / 15° Tilt

With the test device aligned in the “Cheek Position”:

1. While maintaining the orientation of the phone, the phone was retracted parallel to the reference plane far enough to enable a rotation of the phone by 15 degrees.
2. The phone was then rotated around the horizontal line by 15 degrees.
3. While maintaining the orientation of the phone, the phone was moved parallel to the reference plane until any part of the handset touched the head. (In this position, point A was located on the line RE-LE). The tilted position is obtained when the contact is on the pinna. If the contact was at any location other than the pinna, the angle of the phone would then be reduced. In this situation, the tilted position was obtained when any part of the phone was in contact of the ear as well as a second part of the phone was in contact with the head (see Figure 6-2).

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
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**Figure 6-2 Front, Side and Top View of Ear/15° Tilt Position**

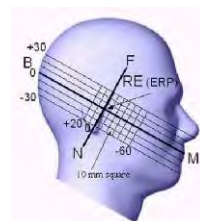


**Figure 6-3 Side view w/ relevant markings**

## 6.4 SAR Evaluations near the Mouth/Jaw Regions of the SAM Phantom

Antennas located near the bottom of a phone may require SAR measurements around the mouth and jaw regions of the SAM head phantom. This typically applies to clam-shell style phones that are generally longer in the unfolded normal use positions or to certain older style long rectangular phones. Per IEEE 1528-2013, a rotated SAM phantom is necessary to allow probe access to such regions. Both SAM heads of the TwinSAM-Chin20 are rotated 20 degrees around the NF line. Each head can be removed from the table for emptying and cleaning.

Under these circumstances, the following procedures apply, adopted from the FCC guidance on SAR handsets document FCC KDB Publication 648474 D04v01r03. The SAR required in these regions of SAM should be measured using a flat phantom. The phone should be positioned with a separation distance of 4 mm between the ear reference point (ERP) and the outer surface of the flat phantom shell. While maintaining this distance at the ERP location, the low (bottom) edge of the phone should be lowered from the phantom to establish the same separation distance between the peak SAR location identified by the truncated partial SAR distribution measured with the SAM phantom. The distance from the peak SAR location to the phone is determined by the straight line passing perpendicularly through the phantom surface. When it is not feasible to maintain 4 mm separation at the ERP while also establishing the required separation at the peak SAR location, the top edge of the phone will be allowed to touch the phantom with a separation < 4 mm at the ERP. The phone should not be tilted to the left or right while placed in this inclined position to the flat phantom.

## 6.5 Body-Worn Accessory Configurations

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 6-4). Per FCC KDB Publication 648474 D04v01r03, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

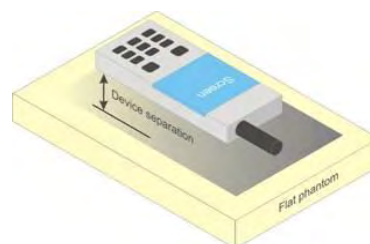


**Figure 6-4 Sample Body-Worn Diagram**

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not

|                                             |                                                                                                                                                                                                                               |                                      |                                        |
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contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented.

Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.

## 6.6 Extremity Exposure Configurations

Devices that are designed or intended for use on extremities or mainly operated in extremity only exposure conditions; i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation. When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. The 1g body and 10g extremity SAR Exclusion Thresholds found in KDB Publication 447498 D01v06 should be applied to determine SAR test requirements.

Per KDB Publication 447498 D01v06, Cell phones (handsets) are not normally designed to be used on extremities or operated in extremity only exposure conditions. The maximum output power levels of handsets generally do not require extremity SAR testing to show compliance. Therefore, extremity SAR was not evaluated for this device.

## 6.7 Wireless Router Configurations

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06v02r01 where SAR test considerations for handsets ( $L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$ ) are based on a composite test separation distance of 10 mm from the front, back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

## 6.8 Phablet Configurations

For smart phones with a display diagonal dimension > 150 mm or an overall diagonal dimension > 160 mm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that

|                                             |                                                                                                                                                                                                                               |                                      |                                        |
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support voice calls next to the ear, the phablets procedures outlined in KDB Publication 648474 D04v01r03 should be applied to evaluate SAR compliance. A device marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance. In addition to the normally required head and body-worn accessory SAR test procedures required for handsets, the UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna  $\leq 25$  mm from that surface or edge, in direct contact with the phantom, for 10g SAR. The UMPC mini-tablet 1g SAR at 5 mm is not required. When hotspot mode applies, 10g SAR is required only for the surfaces and edges with hotspot mode 1g SAR  $> 1.2$  W/kg.

## 6.9 Proximity Sensor Considerations

This device uses a power reduction mechanism to reduce output powers in certain use conditions when the device is used close the user's body.

When the device's antenna is within a certain distance of the user, the sensor activates and reduces the maximum allowed output power. However, the sensor is not active when the device is moved beyond the sensor triggering distance and the maximum output power is no longer limited. Therefore, additional evaluation is needed in the vicinity of the triggering distance to ensure SAR is compliant when the device is allowed to operate at a non-reduced output power level. FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device at these additional test positions. Sensor triggering distance summary data is included in Appendix G.

The sensor is designed to support sufficient detection range and sensitivity to cover regions of the sensors in all applicable directions since the sensor entirely covers the antennas.

|                                             |                                                                                                                                                                                                                             |                                      |                                                                                       |                                        |
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## 7 RF EXPOSURE LIMITS

### 7.1 Uncontrolled Environment

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

### 7.2 Controlled Environment

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

**Table 7-1**  
**SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6**

| HUMAN EXPOSURE LIMITS                                               |                                                                           |                                                                   |
|---------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------|
|                                                                     | UNCONTROLLED ENVIRONMENT<br><i>General Population</i><br>(W/kg) or (mW/g) | CONTROLLED ENVIRONMENT<br><i>Occupational</i><br>(W/kg) or (mW/g) |
| <b>Peak Spatial Average SAR</b><br>Head                             | 1.6                                                                       | 8.0                                                               |
| <b>Whole Body SAR</b>                                               | 0.08                                                                      | 0.4                                                               |
| <b>Peak Spatial Average SAR</b><br>Hands, Feet, Ankle, Wrists, etc. | 4.0                                                                       | 20                                                                |

1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
2. The Spatial Average value of the SAR averaged over the whole body.
3. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

|                                             |                                                                                                                                                                                                                                   |                                      |                                        |
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## 8 FCC MEASUREMENT PROCEDURES

Power measurements for licensed transmitters are performed using a base station simulator under digital average power.

### 8.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D01v06, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as *reported* SAR. The highest *reported* SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

### 8.2 3G SAR Test Reduction Procedure

In FCC KDB Publication 941225 D01v03r01, certain transmission modes within a frequency band and wireless mode evaluated for SAR are defined as primary modes. The equivalent modes considered for SAR test reduction are denoted as secondary modes. When the maximum output power including tune-up tolerance specified for production units in a secondary mode is  $\leq 0.25$  dB higher than the primary mode or when the highest reported SAR of the primary mode, scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode, is  $\leq 1.2$  W/kg, SAR measurements are not required for the secondary mode. These criteria are referred to as the 3G SAR test reduction procedure. When the 3G SAR test reduction procedure is not satisfied, SAR measurements are additionally required for the secondary mode.

### 8.3 Procedures Used to Establish RF Signal for SAR

The following procedures are according to FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.”

The device is placed into a simulated call using a base station simulator in a RF shielded chamber. Establishing connections in this manner ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. Devices under test are evaluated prior to testing, with a fully charged battery and were configured to operate at maximum output power. In order to verify that the device is tested throughout the SAR test at maximum output power, the SAR measurement system measures a “point SAR” at an arbitrary reference point at the start and end of the 1 gram SAR evaluation, to assess for any power drifts during the evaluation. If the power drift deviates by more than 5%, the SAR test and drift measurements are repeated.

### 8.4 SAR Measurement Conditions for CDMA2000

The following procedures were performed according to FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.”

#### 8.4.1 Output Power Verification

See 3GPP2 C.S0011/TIA-98-E as recommended by FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.” Maximum output power is verified on the High, Middle and Low channels according to procedures in section 4.4.5.2 of 3GPP2 C.S0011/TIA-98-E. SO55 tests were measured with power control bits in the “All Up” condition.

|                                      |                                                                                                                                             |                               |                                                                                       |                                 |
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1. If the mobile station (MS) supports Reverse TCH RC 1 and Forward TCH RC 1, set up a call using Fundamental Channel Test Mode 1 (RC=1/1) with 9600 bps data rate only.
2. Under RC1, C.S0011 Table 4.4.5.2-1, Table 8-1 parameters were applied.
3. If the MS supports the RC 3 Reverse FCH, RC3 Reverse SCH<sub>0</sub> and demodulation of RC 3,4, or 5, set up a call using Supplemental Channel Test Mode 3 (RC 3/3) with 9600 bps Fundamental Channel and 9600 bps SCH<sub>0</sub> data rate.
4. Under RC3, C.S0011 Table 4.4.5.2-2, Table 8-2 was applied.

**Table 8-1**  
**Parameters for Max. Power for RC1**

| Parameter                    | Units        | Value |
|------------------------------|--------------|-------|
| $I_{or}$                     | dBm/1.23 MHz | -104  |
| $\frac{Pilot E_c}{I_{or}}$   | dB           | -7    |
| $\frac{Traffic E_c}{I_{or}}$ | dB           | -7.4  |

**Table 8-2**  
**Parameters for Max. Power for RC3**

| Parameter                    | Units        | Value |
|------------------------------|--------------|-------|
| $I_{or}$                     | dBm/1.23 MHz | -86   |
| $\frac{Pilot E_c}{I_{or}}$   | dB           | -7    |
| $\frac{Traffic E_c}{I_{or}}$ | dB           | -7.4  |

5. FCHs were configured at full rate for maximum SAR with “All Up” power control bits.

## 8.4.2 Head SAR Measurements

SAR for next to the ear head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55. The 3G SAR test reduction procedure is applied to RC1 with RC3 as the primary mode; otherwise, SAR is required for the channel with maximum measured output in RC1 using the head exposure configuration that results in the highest reported SAR in RC3.

Head SAR is additionally evaluated using EVDO Rev. A to support compliance for VoIP operations. See Section 8.4.5 for EVDO Rev. A configuration parameters.

## 8.4.3 Body-worn SAR Measurements

SAR for body-worn exposure configurations is measured in RC3 with the DUT configured to transmit at full rate on FCH with all other code channels disabled using TDSO / SO32. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCH<sub>n</sub>), with FCH only as the primary mode. Otherwise, SAR is required for multiple code channel configuration (FCH + SCH<sub>n</sub>), with FCH at full rate and SCH<sub>0</sub> enabled at 9600 bps, using the highest reported SAR configuration for FCH only. When multiple code channels are enabled, the transmitter output can shift by more than 0.5 dB and may lead to higher SAR drifts and SCH dropouts.

The 3G SAR test reduction procedure is applied to body-worn accessory SAR in RC1 with RC3 as the primary mode. Otherwise, SAR is required for RC1, with SO55 and full rate, using the highest reported SAR configuration for body-worn accessory exposure in RC3.

## 8.4.4 Body-worn SAR Measurements for EVDO Devices

For handsets with EVDO capabilities, the 3G SAR test reduction procedure is applied to EVDO Rev. 0 with 1x RTT RC3 as the primary mode to determine body-worn accessory test requirements. Otherwise, body-worn accessory SAR is required for Rev. 0, at 153.6 kbps, using the highest reported SAR configuration for body-worn accessory exposure in RC3.

The 3G SAR test reduction procedure is applied to Rev. A, with Rev. 0 as the primary mode to determine body-worn accessory SAR test requirements. When SAR is not required for Rev. 0, the 3G SAR test reduction is applied with 1x RTT RC3 as the primary mode.

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
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When SAR is required for EVDO Rev. A, SAR is measured with a Reverse Data Channel payload size of 4096 bits and a Termination Target of 16 slots defined for Subtype 2 Physical Layer configurations, using the highest reported SAR configuration for body-worn accessory exposure in Rev. 0 or 1x RTT RC3, as appropriate.

#### 8.4.5 Body SAR Measurements for EVDO Hotspot

Hotspot Body SAR is measured using Subtype 0/1 Physical Layer configurations for Rev. 0. The 3G SAR test reduction procedure is applied to Rev. A, Subtype 2 Physical layer configuration, with Rev. 0 as the primary mode; otherwise, SAR is measured for Rev. A using the highest reported SAR configuration for body-worn accessory exposure in Rev. 0. The AT is tested with a Reverse Data Channel rate of 153.6 kbps in Subtype 0/1 Physical Layer configurations; and a Reverse Data Channel payload size of 4096 bits and Termination Target of 16 slots in Subtype 2 Physical Layer configurations.

For EVDO data devices that also support 1x RTT voice and/or data operations, the 3G SAR test reduction procedure is applied to 1x RTT RC3 and RC1 with EVDO Rev. 0 and Rev. A as the respective primary modes. Otherwise, the 'Body-Worn Accessory SAR' procedures in the '3GPP2 CDMA 2000 1x Handsets' section are applied.

#### 8.4.6 CDMA2000 1x Advanced

This device additionally supports 1x Advanced. Conducted powers are measured using SO75 with RC8 on the uplink and RC11 on the downlink per FCC KDB Publication 941225 D01v03r01. Smart blanking is disabled for all measurements. The EUT is configured with forward power control Mode 000 and reverse power control at 400 bps. Conducted powers are measured on an Agilent 8960 Series 10 Wireless Communications Test Set, Model E5515C using the CDMA2000 1x Advanced application, Option E1962B-410.

The 3G SAR test reduction procedure is applied to the 1x-Advanced transmission mode with 1x RTT RC3 as the primary mode. When SAR measurement is required, the 1x-Advanced power measurement configurations are used. The 1x Advanced SAR procedures are applied separately to head, body-worn accessory and other exposure conditions.

### 8.5 SAR Measurement Conditions for UMTS

#### 8.5.1 Output Power Verification

Maximum output power is verified on the High, Middle and Low channels according to the general descriptions in section 5.2 of 3GPP TS 34.121, using the appropriate RMC with TPC (transmit power control) set to all "1s" or applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HS-DPCCH etc) are tabulated in this test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations are identified.

#### 8.5.2 Head SAR Measurements

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1s". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the

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primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure.

### 8.5.3 Body SAR Measurements

SAR for body exposure configurations is measured using the 12.2 kbps RMC with the TPC bits all “1s”. The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCH<sub>n</sub> configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCH<sub>n</sub>, for the highest reported SAR configuration in 12.2 kbps RMC.

### 8.5.4 SAR Measurements with Rel 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSDPA is measured using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, for the highest reported SAR configuration in 12.2 kbps RMC without HSDPA. Handsets with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

### 8.5.5 SAR Measurements with Rel 6 HSUPA

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set 1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA.

When VOIP applies to head exposure, the 3G SAR test reduction procedure is applied with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body SAR measurements are applied to head exposure testing.

### 8.5.6 SAR Measurement Conditions for DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

## 8.6 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r04 publication. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 or Anritsu MT8820C simulators are used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

### 8.6.1 Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
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## 8.6.2 MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

## 8.6.3 A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

## 8.6.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r04:

- a. Per Section 5.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
  - i. The required channel and offset combination with the highest maximum output power is required for SAR.
  - ii. When the reported SAR is  $\leq 0.8$  W/kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with highest output power for that channel.
  - iii. When the reported SAR for a required test channel is  $> 1.45$  W/kg, SAR is required for all RB offset configurations for that channel.
- b. Per Section 5.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Section 5.2.1.
- c. Per Section 5.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is  $< 0.8$  W/kg.
- d. Per Section 5.2.4 and 5.3, SAR tests for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sections 5.2.1 through 5.2.3 is less than or equal to  $\frac{1}{2}$  dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is  $< 1.45$  W/kg.

## 8.6.5 TDD

LTE TDD testing is performed using the SAR test guidance provided in FCC KDB 941225 D05v02r04. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05v02r04. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211 Section 4.

## 8.6.6 Downlink Only Carrier Aggregation

Conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band. Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for downlink only carrier aggregation configurations when the average output

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
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power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive.

## 8.7 SAR Testing with 802.11 Transmitters

The normal network operating configurations of 802.11 transmitters are not suitable for SAR measurements. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227 D01v02r02 for more details.

### 8.7.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters.

A periodic duty factor is required for current generation SAR systems to measure SAR. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 - 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR is scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

### 8.7.2 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII-2A bands, when the same maximum output power is specified for both bands, SAR measurement using OFDM SAR test procedures is not required for U-NII-1 unless the highest reported SAR for U-NII-2A is  $> 1.2$  W/kg. When different maximum output powers are specified for the bands, SAR measurement for the U-NII band with the lower maximum output power is not required unless the highest reported SAR for the U-NII band with the higher maximum output power, adjusted by the ratio of lower to higher specified maximum output power for the two bands, is  $> 1.2$  W/kg. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

### 8.7.3 U-NII-2C and U-NII-3

The frequency range covered by U-NII-2C and U-NII-3 is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60 – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification. Unless band gap channels are permanently disabled, SAR must be considered for these channels. Each band is tested independently according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

### 8.7.4 Initial Test Position Procedure

For exposure conditions with multiple test positions, such as handset operating next to the ear, devices with hotspot mode or UMPC mini-tablet, procedures for initial test position can be applied. Using the transmission mode determined by the DSSS procedure or initial test configuration, area scans are measured for all positions in an exposure condition. The test position with the highest extrapolated (peak) SAR is used as the initial test position. When reported SAR for the initial test position is  $\leq 0.4$  W/kg, no additional testing for the remaining test positions is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
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positions until the reported SAR result is  $\leq 0.8$  W/kg or all test positions are measured. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

### 8.7.5 2.4 GHz SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either the fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is  $\leq 0.8$  W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) When the reported SAR is  $> 0.8$  W/kg, SAR is required for that position using the next highest measured output power channel. When any reported SAR is  $> 1.2$  W/kg, SAR is required for the third channel; i.e., all channels require testing.

2.4 GHz 802.11 g/n/ax OFDM are additionally evaluated for SAR if the highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power, is  $> 1.2$  W/kg. When SAR is required for OFDM modes in 2.4 GHz band, the Initial Test Configuration Procedures should be followed. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

### 8.7.6 OFDM Transmission Mode and SAR Test Channel Selection

When the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 802.11n and 802.11ac or 802.11g and 802.11n with the same channel bandwidth, modulation and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n and 802.11ac or 802.11g then 802.11n, is used for SAR measurement. Per April 2019 TCB Workshop guidance, 802.11ax was considered the highest order 802.11 mode. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

### 8.7.7 Initial Test Configuration Procedure

For OFDM, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order IEEE 802.11 mode. The channel of the transmission mode with the highest average RF output conducted power will be the initial test configuration.

When the reported SAR is  $\leq 0.8$  W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is  $\leq 1.2$  W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements (See Section 8.7.6). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 32 of 305                         |

### 8.7.8 Subsequent Test Configuration Procedures

For OFDM configurations in each frequency band and aggregated band, SAR is evaluated for initial test configuration using the fixed test position or the initial test position procedure. When the highest reported SAR (for the initial test configuration), adjusted by the ratio of the specified maximum output power of the subsequent test configuration to initial test configuration, is  $\leq 1.2$  W/kg, no additional SAR tests for the subsequent test configurations are required. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

### 8.7.9 MIMO SAR considerations

Per KDB Publication 248227 D01v02r02, the simultaneous SAR provisions in KDB Publication 447498 D01v06 should be applied to determine simultaneous transmission SAR test exclusion for WIFI MIMO. If the sum of 1g single transmission chain SAR measurements is  $< 1.6$  W/kg, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

|                                             |                                                                                                                                                                                                                             |                                      |                                                                                       |                                        |
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## 9

## RF CONDUCTED POWERS

All conducted power measurements for 2G/3G/4G/5G Sub6 WWAN technologies and bands in this section were performed by setting *Reserve\_power\_margin* (Qualcomm® Smart Transmit EFS entry) to 0dB, so that the EUT transmits continuously at minimum ( $P_{limit}$ , maximum tune up output power  $P_{max}$ ).

## 9.1 CDMA Conducted Powers

Table 9-1  
Measured  $P_{max}$

| Band     | Channel | Rule Part | Frequency | SO55 [dBm] | SO55 [dBm] | SO75 [dBm] | TDSO SO32 [dBm] | TDSO SO32 [dBm] | 1x EvDO Rev. 0 [dBm] | 1x EvDO Rev. A [dBm] |
|----------|---------|-----------|-----------|------------|------------|------------|-----------------|-----------------|----------------------|----------------------|
|          | F-RC    |           | MHz       | RC1        | RC3        | RC11       | FCH+SCH         | FCH             | (RTAP)               | (RETAP)              |
| Cellular | 564     | 90S       | 820.1     | 24.76      | 24.75      | 24.55      | 24.70           | 24.69           | 24.38                | 24.50                |
| Cellular | 1013    | 22H       | 824.7     | 24.87      | 24.86      | 24.79      | 24.82           | 24.83           | 24.61                | 24.88                |
|          | 384     | 22H       | 836.52    | 24.93      | 24.93      | 24.83      | 24.91           | 24.92           | 24.38                | 24.78                |
|          | 777     | 22H       | 848.31    | 24.35      | 24.42      | 24.34      | 24.41           | 24.42           | 24.21                | 24.39                |
| PCS      | 25      | 24E       | 1851.25   | 23.62      | 23.60      | 23.54      | 23.60           | 23.59           | 23.37                | 23.63                |
|          | 600     | 24E       | 1880      | 23.20      | 23.21      | 23.20      | 23.21           | 23.36           | 22.99                | 23.25                |
|          | 1175    | 24E       | 1908.75   | 23.59      | 23.59      | 23.60      | 23.57           | 23.82           | 23.20                | 23.56                |

Table 9-2  
Measured  $P_{limit}$  for DSI = 3 (Hotspot Mode)

| Band | Channel | Rule Part | Frequency | TDSO SO32 [dBm] | TDSO SO32 [dBm] | 1x EvDO Rev. 0 [dBm] | 1x EvDO Rev. A [dBm] |
|------|---------|-----------|-----------|-----------------|-----------------|----------------------|----------------------|
|      | F-RC    |           | MHz       | FCH+SCH         | FCH             | (RTAP)               | (RETAP)              |
| PCS  | 25      | 24E       | 1851.25   | 18.92           | 18.92           | 18.99                | 18.99                |
|      | 600     | 24E       | 1880      | 18.60           | 18.60           | 18.70                | 18.71                |
|      | 1175    | 24E       | 1908.75   | 18.88           | 18.88           | 18.93                | 18.95                |

|                                      |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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**Table 9-3**  
**Measured  $P_{limit}$  for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active)**

| Band | Channel | Rule Part | Frequency | SO55 [dBm] | SO55 [dBm] | SO75 [dBm] | TDSO SO32 [dBm] | TDSO SO32 [dBm] | 1x EvDO Rev. 0 [dBm] | 1x EvDO Rev. A [dBm] |
|------|---------|-----------|-----------|------------|------------|------------|-----------------|-----------------|----------------------|----------------------|
|      | F-RC    |           | MHz       | RC1        | RC3        | RC11       | FCH+SCH         | FCH             | (RTAP)               | (RETAP)              |
| PCS  | 25      | 24E       | 1851.25   | 21.55      | 21.59      | 21.60      | 21.32           | 21.57           | 21.80                | 21.77                |
|      | 600     | 24E       | 1880      | 21.13      | 21.12      | 21.14      | 21.00           | 21.13           | 21.41                | 21.43                |
|      | 1175    | 24E       | 1908.75   | 21.53      | 21.51      | 21.51      | 21.28           | 21.52           | 21.78                | 21.78                |

Note: RC1 is only applicable for IS-95 compatibility. For FCC Rule Part 90S, Per FCC KDB Publication 447498 D01v06 4.1.g), only one channel is required since the device operates within the transmission range of 817.90 – 823.10 MHz.

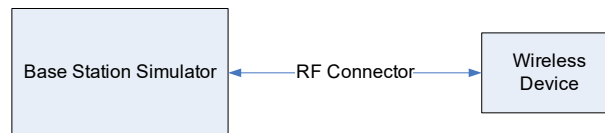


**Figure 9-1**  
**Power Measurement Setup**

|                                      |                                                                                                                                                                                                                                                  |                               |                                        |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|
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## 9.2 GSM Conducted Powers

**Table 9-4**  
**Measured  $P_{max}$**

| Maximum Burst-Averaged Output Power |         |                       |                       |                      |                      |                      |                      |                      |                      |                      |
|-------------------------------------|---------|-----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                     |         | Voice                 | GPRS/EDGE Data (GMSK) |                      |                      |                      | EDGE Data (8-PSK)    |                      |                      |                      |
| Band                                | Channel | GSM [dBm] CS (1 Slot) | GPRS [dBm] 1 Tx Slot  | GPRS [dBm] 2 Tx Slot | GPRS [dBm] 3 Tx Slot | GPRS [dBm] 4 Tx Slot | EDGE [dBm] 1 Tx Slot | EDGE [dBm] 2 Tx Slot | EDGE [dBm] 3 Tx Slot | EDGE [dBm] 4 Tx Slot |
| <b>GSM 850</b>                      | 128     | 33.06                 | 32.91                 | 31.88                | <b>29.71</b>         | 27.91                | 27.40                | 25.75                | 23.33                | 22.53                |
|                                     | 190     | 32.86                 | 32.95                 | 31.88                | <b>29.42</b>         | 27.76                | 27.23                | 25.83                | 23.26                | 22.55                |
|                                     | 251     | 32.95                 | 32.81                 | 31.72                | <b>29.81</b>         | 27.68                | 27.17                | 25.42                | 23.54                | 22.52                |
| <b>GSM 1900</b>                     | 512     | 30.15                 | 30.14                 | 28.80                | <b>27.30</b>         | 25.22                | 26.45                | 25.00                | 22.69                | 21.79                |
|                                     | 661     | 29.74                 | 29.72                 | 28.80                | <b>27.14</b>         | 25.09                | 26.12                | 24.71                | 22.77                | 21.61                |
|                                     | 810     | 30.03                 | 30.00                 | 28.71                | <b>27.07</b>         | 25.15                | 26.05                | 24.86                | 22.90                | 21.81                |

| Calculated Maximum Frame-Averaged Output Power |         |                       |                       |                      |                      |                      |                      |                      |                      |                      |
|------------------------------------------------|---------|-----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                                |         | Voice                 | GPRS/EDGE Data (GMSK) |                      |                      |                      | EDGE Data (8-PSK)    |                      |                      |                      |
| Band                                           | Channel | GSM [dBm] CS (1 Slot) | GPRS [dBm] 1 Tx Slot  | GPRS [dBm] 2 Tx Slot | GPRS [dBm] 3 Tx Slot | GPRS [dBm] 4 Tx Slot | EDGE [dBm] 1 Tx Slot | EDGE [dBm] 2 Tx Slot | EDGE [dBm] 3 Tx Slot | EDGE [dBm] 4 Tx Slot |
| <b>GSM 850</b>                                 | 128     | 23.86                 | 23.71                 | 25.69                | <b>25.28</b>         | 24.73                | 18.20                | 19.56                | 18.90                | 19.35                |
|                                                | 190     | 23.66                 | 23.75                 | 25.69                | <b>24.99</b>         | 24.58                | 18.03                | 19.64                | 18.83                | 19.37                |
|                                                | 251     | 23.75                 | 23.61                 | 25.53                | <b>25.38</b>         | 24.50                | 17.97                | 19.23                | 19.11                | 19.34                |
| <b>GSM 1900</b>                                | 512     | 20.95                 | 20.94                 | 22.61                | <b>22.87</b>         | 22.04                | 17.25                | 18.81                | 18.26                | 18.61                |
|                                                | 661     | 20.54                 | 20.52                 | 22.61                | <b>22.71</b>         | 21.91                | 16.92                | 18.52                | 18.34                | 18.43                |
|                                                | 810     | 20.83                 | 20.80                 | 22.52                | <b>22.64</b>         | 21.97                | 16.85                | 18.67                | 18.47                | 18.63                |

|                 |                                |       |       |       |              |       |       |       |       |       |
|-----------------|--------------------------------|-------|-------|-------|--------------|-------|-------|-------|-------|-------|
| <b>GSM 850</b>  | <b>Frame<br/>Avg. Targets:</b> | 23.30 | 23.30 | 25.31 | <b>25.07</b> | 24.32 | 17.80 | 18.81 | 18.57 | 18.82 |
| <b>GSM 1900</b> |                                | 20.30 | 20.30 | 22.31 | <b>22.07</b> | 21.32 | 16.80 | 17.81 | 17.57 | 17.82 |

|                                      |                                                                                                                                                                                                                             |                               |                                                                                       |                                        |
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| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                          | DUT Type:<br>Portable Handset |                                                                                       | Page 36 of 305                         |



**Table 9-5**  
**Measured  $P_{limit}$  for DSI = 3 (Hotspot mode)**

| Maximum Burst-Averaged Output Power |         |                            |                            |                            |                            |                            |                            |                            |                            |
|-------------------------------------|---------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
|                                     |         | GPRS/EDGE Data<br>(GMSK)   |                            |                            |                            | EDGE Data<br>(8-PSK)       |                            |                            |                            |
| Band                                | Channel | GPRS<br>[dBm]<br>1 Tx Slot | GPRS<br>[dBm]<br>2 Tx Slot | GPRS<br>[dBm]<br>3 Tx Slot | GPRS<br>[dBm]<br>4 Tx Slot | EDGE<br>[dBm]<br>1 Tx Slot | EDGE<br>[dBm]<br>2 Tx Slot | EDGE<br>[dBm]<br>3 Tx Slot | EDGE<br>[dBm]<br>4 Tx Slot |
| <b>GSM 1900</b>                     | 512     | 28.44                      | 25.18                      | 23.47                      | <b>22.26</b>               | 26.45                      | 25.00                      | 22.69                      | 21.79                      |
|                                     | 661     | 28.04                      | 24.93                      | 23.34                      | <b>22.10</b>               | 26.12                      | 24.71                      | 22.77                      | 21.61                      |
|                                     | 810     | 28.29                      | 25.38                      | 23.43                      | <b>22.20</b>               | 26.05                      | 24.86                      | 22.90                      | 21.81                      |

| Calculated Maximum Frame-Averaged Output Power |         |                            |                            |                            |                            |                            |                            |                            |                            |
|------------------------------------------------|---------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
|                                                |         | GPRS/EDGE Data<br>(GMSK)   |                            |                            |                            | EDGE Data<br>(8-PSK)       |                            |                            |                            |
| Band                                           | Channel | GPRS<br>[dBm]<br>1 Tx Slot | GPRS<br>[dBm]<br>2 Tx Slot | GPRS<br>[dBm]<br>3 Tx Slot | GPRS<br>[dBm]<br>4 Tx Slot | EDGE<br>[dBm]<br>1 Tx Slot | EDGE<br>[dBm]<br>2 Tx Slot | EDGE<br>[dBm]<br>3 Tx Slot | EDGE<br>[dBm]<br>4 Tx Slot |
| <b>GSM 1900</b>                                | 512     | 19.24                      | 18.99                      | 19.04                      | <b>19.08</b>               | 17.25                      | 18.81                      | 18.26                      | 18.61                      |
|                                                | 661     | 18.84                      | 18.74                      | 18.91                      | <b>18.92</b>               | 16.92                      | 18.52                      | 18.34                      | 18.43                      |
|                                                | 810     | 19.09                      | 19.19                      | 19.00                      | <b>19.02</b>               | 16.85                      | 18.67                      | 18.47                      | 18.63                      |

|                 |                               |       |       |       |              |       |       |       |       |
|-----------------|-------------------------------|-------|-------|-------|--------------|-------|-------|-------|-------|
| <b>GSM 1900</b> | <b>Frame<br/>Avg.Targets:</b> | 18.60 | 18.61 | 18.57 | <b>18.62</b> | 16.80 | 17.81 | 17.57 | 17.82 |
|-----------------|-------------------------------|-------|-------|-------|--------------|-------|-------|-------|-------|

|                                             |                                                                                                                                                                                                                             |                                      |                                                                                       |                                        |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                   | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 37 of 305                         |

**Table 9-6**  
**Measured  $P_{limit}$  for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active)**

| Maximum Burst-Averaged Output Power |         |                       |                       |                      |                      |                      |                      |                      |                      |                      |
|-------------------------------------|---------|-----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                     |         | Voice                 | GPRS/EDGE Data (GMSK) |                      |                      |                      | EDGE Data (8-PSK)    |                      |                      |                      |
| Band                                | Channel | GSM [dBm] CS (1 Slot) | GPRS [dBm] 1 Tx Slot  | GPRS [dBm] 2 Tx Slot | GPRS [dBm] 3 Tx Slot | GPRS [dBm] 4 Tx Slot | EDGE [dBm] 1 Tx Slot | EDGE [dBm] 2 Tx Slot | EDGE [dBm] 3 Tx Slot | EDGE [dBm] 4 Tx Slot |
| GSM 1900                            | 512     | 29.72                 | 29.74                 | 26.80                | 24.86                | 23.34                | 26.45                | 25.00                | 22.69                | 21.79                |
|                                     | 661     | 29.55                 | 29.59                 | 26.64                | 24.65                | 23.21                | 26.12                | 24.71                | 22.77                | 21.61                |
|                                     | 810     | 29.70                 | 29.72                 | 26.61                | 24.91                | 23.15                | 26.05                | 24.86                | 22.90                | 21.81                |

| Calculated Maximum Frame-Averaged Output Power |         |                       |                       |                      |                      |                      |                      |                      |                      |                      |
|------------------------------------------------|---------|-----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                                |         | Voice                 | GPRS/EDGE Data (GMSK) |                      |                      |                      | EDGE Data (8-PSK)    |                      |                      |                      |
| Band                                           | Channel | GSM [dBm] CS (1 Slot) | GPRS [dBm] 1 Tx Slot  | GPRS [dBm] 2 Tx Slot | GPRS [dBm] 3 Tx Slot | GPRS [dBm] 4 Tx Slot | EDGE [dBm] 1 Tx Slot | EDGE [dBm] 2 Tx Slot | EDGE [dBm] 3 Tx Slot | EDGE [dBm] 4 Tx Slot |
| GSM 1900                                       | 512     | 20.52                 | 20.54                 | 20.61                | 20.43                | 20.16                | 17.25                | 18.81                | 18.26                | 18.61                |
|                                                | 661     | 20.35                 | 20.39                 | 20.45                | 20.22                | 20.03                | 16.92                | 18.52                | 18.34                | 18.43                |
|                                                | 810     | 20.50                 | 20.52                 | 20.42                | 20.48                | 19.97                | 16.85                | 18.67                | 18.47                | 18.63                |

|          |                     |       |       |       |       |       |       |       |       |       |
|----------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| GSM 1900 | Frame Avg. Targets: | 20.10 | 20.10 | 20.11 | 20.07 | 20.12 | 16.80 | 17.81 | 17.57 | 17.82 |
|----------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

Note:

- Both burst-averaged and calculated frame-averaged powers are included. Frame-averaged power was calculated from the measured burst-averaged power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
- GPRS/EDGE (GMSK) output powers were measured with coding scheme setting of 1 (CS1) on the base station simulator. CS1 was configured to measure GPRS output power measurements and SAR to ensure GMSK modulation in the signal. Our investigation has shown that CS1 - CS4 settings do not have any impact on the output levels or modulation in the GPRS modes.
- EDGE (8-PSK) output powers were measured with MCS7 on the base station simulator. MCS7 coding scheme was used to measure the output powers for EDGE since investigation has shown that choosing MCS7 coding scheme will ensure 8-PSK modulation. It has been shown that MCS levels that produce 8-PSK modulation do not have an impact on output power.

**GSM Class: B**  
**GPRS Multislot class: 33 (Max 4 Tx uplink slots)**  
**EDGE Multislot class: 33 (Max 4 Tx uplink slots)**  
**DTM Multislot Class: N/A**



**Figure 9-2**  
**Power Measurement Setup**

|                                      |                                                                                                                                                                                                               |                               |                                                                                       |                                 |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                            | DUT Type:<br>Portable Handset | Page 38 of 305                                                                        |                                 |

## 9.3 UMTS Conducted Powers

**Table 9-7**  
**Measured  $P_{max}$**

| 3GPP Release Version | Mode     | 3GPP 34.121 Subtest | Cellular Band [dBm] |       |       | AWS Band [dBm] |       |       | PCS Band [dBm] |       |       | 3GPP MPR [dB] |
|----------------------|----------|---------------------|---------------------|-------|-------|----------------|-------|-------|----------------|-------|-------|---------------|
|                      |          |                     | 4132                | 4183  | 4233  | 1312           | 1412  | 1513  | 9262           | 9400  | 9538  |               |
| 99                   | WCDMA    | 12.2 kbps RMC       | 25.18               | 25.20 | 24.85 | 23.91          | 23.89 | 23.88 | 23.75          | 23.34 | 23.68 | -             |
| 99                   |          | 12.2 kbps AMR       | 25.26               | 25.33 | 24.85 | 23.89          | 23.88 | 23.86 | 23.77          | 23.34 | 23.71 | -             |
| 6                    | HSDPA    | Subtest 1           | 24.26               | 24.28 | 23.85 | 22.92          | 22.95 | 22.97 | 22.66          | 22.34 | 22.68 | 0             |
| 6                    |          | Subtest 2           | 24.26               | 24.30 | 23.94 | 22.86          | 22.84 | 22.96 | 22.62          | 22.23 | 22.61 | 0             |
| 6                    |          | Subtest 3           | 23.77               | 23.84 | 23.42 | 22.42          | 22.38 | 22.45 | 22.10          | 21.72 | 22.21 | 0.5           |
| 6                    |          | Subtest 4           | 23.76               | 23.81 | 23.38 | 22.42          | 22.47 | 22.49 | 22.04          | 21.70 | 22.12 | 0.5           |
| 6                    | HSUPA    | Subtest 1           | 24.28               | 24.30 | 23.88 | 22.92          | 22.90 | 22.93 | 22.59          | 22.23 | 22.64 | 0             |
| 6                    |          | Subtest 2           | 22.30               | 22.31 | 21.89 | 20.90          | 20.89 | 20.95 | 20.61          | 20.20 | 20.67 | 2             |
| 6                    |          | Subtest 3           | 23.26               | 23.25 | 22.88 | 21.93          | 21.88 | 21.94 | 21.59          | 21.19 | 21.67 | 1             |
| 6                    |          | Subtest 4           | 22.25               | 22.30 | 21.84 | 20.90          | 20.88 | 20.95 | 20.60          | 20.20 | 20.63 | 2             |
| 6                    |          | Subtest 5           | 24.28               | 24.29 | 23.89 | 22.91          | 22.89 | 22.93 | 22.61          | 22.21 | 22.64 | 0             |
| 8                    | DC-HSDPA | Subtest 1           | 24.27               | 24.35 | 23.88 | 22.93          | 22.88 | 22.90 | 22.63          | 22.26 | 22.67 | 0             |
| 8                    |          | Subtest 2           | 23.89               | 24.33 | 23.88 | 22.97          | 22.94 | 22.96 | 22.64          | 22.23 | 22.53 | 0             |
| 8                    |          | Subtest 3           | 23.38               | 23.77 | 23.41 | 22.43          | 22.35 | 22.46 | 22.12          | 21.77 | 22.12 | 0.5           |
| 8                    |          | Subtest 4           | 23.79               | 23.81 | 23.40 | 22.39          | 22.40 | 22.44 | 22.13          | 21.72 | 22.14 | 0.5           |

**Table 9-8**  
**Measured  $P_{limit}$  for DSI = 3 (Hotspot mode)**

| 3GPP Release Version | Mode     | 3GPP 34.121 Subtest | AWS Band [dBm] |       |       | PCS Band [dBm] |       |       | 3GPP MPR [dB] |
|----------------------|----------|---------------------|----------------|-------|-------|----------------|-------|-------|---------------|
|                      |          |                     | 1312           | 1412  | 1513  | 9262           | 9400  | 9538  |               |
| 99                   | WCDMA    | 12.2 kbps RMC       | 19.32          | 19.24 | 19.80 | 18.59          | 18.26 | 18.49 | -             |
| 99                   |          | 12.2 kbps AMR       | 19.30          | 19.29 | 19.89 | 18.57          | 18.25 | 18.56 | -             |
| 6                    | HSDPA    | Subtest 1           | 18.36          | 18.40 | 18.45 | 17.60          | 17.25 | 17.61 | 0             |
| 6                    |          | Subtest 2           | 18.54          | 18.71 | 18.47 | 17.60          | 17.20 | 17.53 | 0             |
| 6                    |          | Subtest 3           | 17.90          | 17.94 | 17.98 | 17.18          | 16.73 | 17.11 | 0.5           |
| 6                    |          | Subtest 4           | 17.85          | 17.91 | 17.97 | 17.16          | 16.71 | 17.05 | 0.5           |
| 6                    | HSUPA    | Subtest 1           | 18.32          | 18.35 | 18.40 | 17.50          | 17.12 | 17.53 | 0             |
| 6                    |          | Subtest 2           | 16.36          | 16.41 | 16.45 | 15.57          | 15.16 | 15.56 | 2             |
| 6                    |          | Subtest 3           | 17.31          | 17.35 | 17.48 | 16.58          | 16.15 | 16.56 | 1             |
| 6                    |          | Subtest 4           | 16.39          | 16.39 | 16.47 | 15.59          | 15.19 | 15.56 | 2             |
| 6                    |          | Subtest 5           | 18.31          | 18.35 | 18.42 | 17.58          | 17.14 | 17.50 | 0             |
| 8                    | DC-HSDPA | Subtest 1           | 18.34          | 18.37 | 18.40 | 17.65          | 17.21 | 17.56 | 0             |
| 8                    |          | Subtest 2           | 18.28          | 18.37 | 18.47 | 17.44          | 17.08 | 17.52 | 0             |
| 8                    |          | Subtest 3           | 17.81          | 17.92 | 17.94 | 17.11          | 16.70 | 17.01 | 0.5           |
| 8                    |          | Subtest 4           | 17.87          | 17.89 | 17.97 | 17.13          | 16.70 | 17.07 | 0.5           |

|                                      |                                                                                                                                                                                                              |                               |                                                                                       |                                        |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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**Table 9-9**  
**Measured  $P_{limit}$  for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active)**

| 3GPP Release Version | Mode     | 3GPP 34.121 Subtest | AWS Band [dBm] |       |       | PCS Band [dBm] |       |       | 3GPP MPR [dB] |
|----------------------|----------|---------------------|----------------|-------|-------|----------------|-------|-------|---------------|
|                      |          |                     | 1312           | 1412  | 1513  | 9262           | 9400  | 9538  |               |
| 99                   | WCDMA    | 12.2 kbps RMC       | 20.60          | 20.58 | 20.53 | 20.40          | 20.25 | 20.50 | -             |
| 99                   |          | 12.2 kbps AMR       | 20.59          | 20.54 | 20.47 | 20.39          | 20.26 | 20.52 | -             |
| 6                    | HSDPA    | Subtest 1           | 19.36          | 19.43 | 19.46 | 19.70          | 19.25 | 19.63 | 0             |
| 6                    |          | Subtest 2           | 19.37          | 19.39 | 19.42 | 19.66          | 19.21 | 19.56 | 0             |
| 6                    |          | Subtest 3           | 18.86          | 18.93 | 18.93 | 19.12          | 18.75 | 19.15 | 0.5           |
| 6                    |          | Subtest 4           | 18.88          | 18.85 | 18.92 | 19.12          | 18.73 | 19.07 | 0.5           |
| 6                    | HSUPA    | Subtest 1           | 19.37          | 19.39 | 19.45 | 19.61          | 19.20 | 19.58 | 0             |
| 6                    |          | Subtest 2           | 17.35          | 17.51 | 17.48 | 17.66          | 17.23 | 17.62 | 2             |
| 6                    |          | Subtest 3           | 18.37          | 18.39 | 18.48 | 18.67          | 18.25 | 18.61 | 1             |
| 6                    |          | Subtest 4           | 17.38          | 17.44 | 17.49 | 17.67          | 17.26 | 17.62 | 2             |
| 6                    |          | Subtest 5           | 19.50          | 19.42 | 19.50 | 19.68          | 19.22 | 19.59 | 0             |
| 8                    | DC-HSDPA | Subtest 1           | 19.39          | 19.49 | 19.47 | 19.77          | 19.32 | 19.59 | 0             |
| 8                    |          | Subtest 2           | 19.38          | 19.45 | 19.49 | 19.68          | 19.32 | 19.62 | 0             |
| 8                    |          | Subtest 3           | 18.90          | 18.91 | 18.98 | 19.19          | 18.73 | 19.11 | 0.5           |
| 8                    |          | Subtest 4           | 18.88          | 18.93 | 18.99 | 19.15          | 18.74 | 19.12 | 0.5           |

DC-HSDPA considerations

- 3GPP Specification 34.121-1 Release 8 Ver 8.10.0 was used for DC-HSDPA guidance
- H-Set 12 (QPSK) was confirmed to be used during DC-HSDPA measurements
- The DUT supports UE category 24 for HSDPA

It is expected by the manufacturer that MPR for some HSPA subtests may be up to 2 dB more than specified by 3GPP, but also as low as 0 dB according to the chipset implementation in this model.



**Figure 9-3**  
**Power Measurement Setup**

|                                             |                                                                                                                                                                                                                               |                                      |                                                                                       |                                        |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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## 9.4 LTE Conducted Powers

### 9.4.1

### LTE Band 71

**Table 9-10**  
**LTE Band 71 Measured  $P_{\max}$  for all DSI - 20 MHz Bandwidth**

| LTE Band 71<br>20 MHz Bandwidth |         |           |                          |                              |          |
|---------------------------------|---------|-----------|--------------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Mid Channel              | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 133297<br>(680.5 MHz)    |                              |          |
|                                 |         |           | Conducted Power<br>[dBm] |                              |          |
| QPSK                            | 1       | 0         | <b>25.17</b>             | 0                            | 0        |
|                                 | 1       | 50        | 25.02                    |                              | 0        |
|                                 | 1       | 99        | 24.98                    |                              | 0        |
|                                 | 50      | 0         | <b>24.20</b>             | 0-1                          | 1        |
|                                 | 50      | 25        | 24.08                    |                              | 1        |
|                                 | 50      | 50        | 24.09                    |                              | 1        |
|                                 | 100     | 0         | 24.12                    |                              | 1        |
| 16QAM                           | 1       | 0         | 24.50                    | 0-1                          | 1        |
|                                 | 1       | 50        | 24.41                    |                              | 1        |
|                                 | 1       | 99        | 24.32                    |                              | 1        |
|                                 | 50      | 0         | 23.10                    | 0-2                          | 2        |
|                                 | 50      | 25        | 23.14                    |                              | 2        |
|                                 | 50      | 50        | 23.09                    |                              | 2        |
|                                 | 100     | 0         | 23.07                    |                              | 2        |
| 64QAM                           | 1       | 0         | 23.32                    | 0-2                          | 2        |
|                                 | 1       | 50        | 23.31                    |                              | 2        |
|                                 | 1       | 99        | 23.27                    |                              | 2        |
|                                 | 50      | 0         | 22.16                    | 0-3                          | 3        |
|                                 | 50      | 25        | 22.22                    |                              | 3        |
|                                 | 50      | 50        | 22.14                    |                              | 3        |
|                                 | 100     | 0         | 22.15                    |                              | 3        |
| 256QAM                          | 1       | 0         | 20.01                    | 0-5                          | 5        |
|                                 | 1       | 50        | 20.32                    |                              | 5        |
|                                 | 1       | 99        | 20.03                    |                              | 5        |
|                                 | 50      | 0         | 20.02                    |                              | 5        |
|                                 | 50      | 25        | 20.22                    |                              | 5        |
|                                 | 50      | 50        | 20.12                    |                              | 5        |
|                                 | 100     | 0         | 20.13                    |                              | 5        |

Note: LTE Band 71 at 20 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

|                                      |                                                                                                                                                                                                                |                               |                                        |
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**Table 9-11**  
**LTE Band 71 Measured P<sub>max</sub> for all DSI - 15 MHz Bandwidth**

| LTE Band 71<br>15 MHz Bandwidth |         |           |                          |                              |          |
|---------------------------------|---------|-----------|--------------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Mid Channel              | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 133297<br>(680.5 MHz)    |                              |          |
|                                 |         |           | Conducted Power<br>[dBm] |                              |          |
| QPSK                            | 1       | 0         | 25.07                    | 0                            | 0        |
|                                 | 1       | 36        | 25.14                    |                              | 0        |
|                                 | 1       | 74        | 25.04                    |                              | 0        |
|                                 | 36      | 0         | 24.30                    | 0-1                          | 1        |
|                                 | 36      | 18        | 24.33                    |                              | 1        |
|                                 | 36      | 37        | 24.28                    |                              | 1        |
|                                 | 75      | 0         | 24.20                    |                              | 1        |
| 16QAM                           | 1       | 0         | 24.18                    | 0-1                          | 1        |
|                                 | 1       | 36        | 24.27                    |                              | 1        |
|                                 | 1       | 74        | 24.10                    |                              | 1        |
|                                 | 36      | 0         | 23.33                    | 0-2                          | 2        |
|                                 | 36      | 18        | 23.34                    |                              | 2        |
|                                 | 36      | 37        | 23.32                    |                              | 2        |
|                                 | 75      | 0         | 23.23                    |                              | 2        |
| 64QAM                           | 1       | 0         | 23.41                    | 0-2                          | 2        |
|                                 | 1       | 36        | 23.45                    |                              | 2        |
|                                 | 1       | 74        | 23.41                    |                              | 2        |
|                                 | 36      | 0         | 22.41                    | 0-3                          | 3        |
|                                 | 36      | 18        | 22.40                    |                              | 3        |
|                                 | 36      | 37        | 22.39                    |                              | 3        |
|                                 | 75      | 0         | 22.17                    |                              | 3        |
| 256QAM                          | 1       | 0         | 20.51                    | 0-5                          | 5        |
|                                 | 1       | 36        | 20.64                    |                              | 5        |
|                                 | 1       | 74        | 20.67                    |                              | 5        |
|                                 | 36      | 0         | 20.31                    |                              | 5        |
|                                 | 36      | 18        | 20.37                    |                              | 5        |
|                                 | 36      | 37        | 20.36                    |                              | 5        |
|                                 | 75      | 0         | 20.33                    |                              | 5        |

Note: LTE Band 71 at 15 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

|                                      |                                                                                                                                                        |                               |                                                                                       |                                 |
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| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                     | DUT Type:<br>Portable Handset | Page 42 of 305                                                                        |                                 |



**Table 9-12**  
**LTE Band 71 Measured  $P_{\max}$  for all DSI - 10 MHz Bandwidth**

| LTE Band 71<br>10 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 133172<br>(668.0 MHz) | 133297<br>(680.5 MHz) | 133422<br>(693.0 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 25.10                 | 25.21                 | 25.19                 | 0                            | 0        |
|                                 | 1       | 25        | 24.98                 | 25.20                 | 25.09                 |                              | 0        |
|                                 | 1       | 49        | 25.04                 | 25.21                 | 25.07                 |                              | 0        |
|                                 | 25      | 0         | 24.25                 | 24.20                 | 24.18                 | 0-1                          | 1        |
|                                 | 25      | 12        | 24.30                 | 24.22                 | 24.16                 |                              | 1        |
|                                 | 25      | 25        | 24.22                 | 24.21                 | 24.16                 |                              | 1        |
|                                 | 50      | 0         | 24.21                 | 24.25                 | 24.17                 |                              | 1        |
| 16QAM                           | 1       | 0         | 24.03                 | 24.19                 | 24.20                 | 0-1                          | 1        |
|                                 | 1       | 25        | 24.01                 | 24.20                 | 24.30                 |                              | 1        |
|                                 | 1       | 49        | 23.98                 | 23.91                 | 24.08                 |                              | 1        |
|                                 | 25      | 0         | 23.33                 | 23.25                 | 23.26                 | 0-2                          | 2        |
|                                 | 25      | 12        | 23.39                 | 23.22                 | 23.24                 |                              | 2        |
|                                 | 25      | 25        | 23.33                 | 23.18                 | 23.28                 |                              | 2        |
|                                 | 50      | 0         | 23.29                 | 23.20                 | 23.09                 |                              | 2        |
| 64QAM                           | 1       | 0         | 23.37                 | 23.27                 | 23.52                 | 0-2                          | 2        |
|                                 | 1       | 25        | 23.43                 | 23.30                 | 23.43                 |                              | 2        |
|                                 | 1       | 49        | 23.35                 | 23.24                 | 23.42                 |                              | 2        |
|                                 | 25      | 0         | 22.34                 | 22.18                 | 22.24                 | 0-3                          | 3        |
|                                 | 25      | 12        | 22.40                 | 22.20                 | 22.23                 |                              | 3        |
|                                 | 25      | 25        | 22.36                 | 22.24                 | 22.28                 |                              | 3        |
|                                 | 50      | 0         | 22.23                 | 22.22                 | 22.15                 |                              | 3        |
| 256QAM                          | 1       | 0         | 19.91                 | 19.99                 | 20.25                 | 0-5                          | 5        |
|                                 | 1       | 25        | 19.95                 | 20.38                 | 20.18                 |                              | 5        |
|                                 | 1       | 49        | 19.86                 | 20.03                 | 20.23                 |                              | 5        |
|                                 | 25      | 0         | 20.24                 | 20.20                 | 20.18                 |                              | 5        |
|                                 | 25      | 12        | 20.42                 | 20.29                 | 20.25                 |                              | 5        |
|                                 | 25      | 25        | 20.29                 | 20.29                 | 20.20                 |                              | 5        |
|                                 | 50      | 0         | 20.29                 | 20.19                 | 20.18                 |                              | 5        |

|                                      |                                                                                                                                                                                                                               |                               |                                                                                       |                                 |
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| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                            | DUT Type:<br>Portable Handset |                                                                                       | Page 43 of 305                  |

**Table 9-13**  
**LTE Band 71 Measured P<sub>max</sub> for all DSI - 5 MHz Bandwidth**

| LTE Band 71<br>5 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|--------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                     | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                |         |           | 133147<br>(665.5 MHz) | 133297<br>(680.5 MHz) | 133447<br>(695.5 MHz) |                              |          |
|                                |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                           | 1       | 0         | 25.25                 | 24.98                 | 24.91                 | 0                            | 0        |
|                                | 1       | 12        | 25.22                 | 25.21                 | 25.01                 |                              | 0        |
|                                | 1       | 24        | 25.29                 | 25.03                 | 24.97                 |                              | 0        |
|                                | 12      | 0         | 24.20                 | 23.92                 | 24.01                 | 0-1                          | 1        |
|                                | 12      | 6         | 24.32                 | 24.30                 | 24.02                 |                              | 1        |
|                                | 12      | 13        | 24.31                 | 24.29                 | 23.99                 |                              | 1        |
| 16QAM                          | 25      | 0         | 24.27                 | 24.31                 | 23.97                 | 0-1                          | 1        |
|                                | 1       | 0         | 24.36                 | 24.21                 | 23.96                 |                              | 1        |
|                                | 1       | 12        | 24.33                 | 24.31                 | 24.08                 |                              | 1        |
|                                | 1       | 24        | 24.29                 | 24.32                 | 24.22                 | 0-2                          | 1        |
|                                | 12      | 0         | 23.30                 | 23.28                 | 23.11                 |                              | 2        |
|                                | 12      | 6         | 23.42                 | 23.31                 | 23.14                 |                              | 2        |
| 64QAM                          | 12      | 13        | 23.39                 | 23.28                 | 23.15                 | 0-2                          | 2        |
|                                | 25      | 0         | 23.34                 | 23.33                 | 23.29                 |                              | 2        |
|                                | 1       | 0         | 23.47                 | 23.29                 | 22.98                 |                              | 0-2      |
|                                | 1       | 12        | 23.47                 | 23.29                 | 23.01                 | 2                            |          |
|                                | 1       | 24        | 23.43                 | 23.28                 | 23.20                 | 2                            |          |
|                                | 256QAM  | 12        | 0                     | 22.21                 | 22.24                 | 22.17                        | 0-3      |
| 12                             |         | 6         | 22.30                 | 22.30                 | 22.14                 | 3                            |          |
| 12                             |         | 13        | 22.31                 | 22.17                 | 22.12                 | 3                            |          |
| 25                             |         | 0         | 22.35                 | 22.32                 | 22.22                 | 0-5                          | 3        |
| 1                              |         | 0         | 20.38                 | 20.16                 | 20.27                 |                              | 5        |
| 1                              |         | 12        | 20.55                 | 20.36                 | 20.17                 |                              | 5        |
| 1                              | 24      | 20.42     | 20.32                 | 20.29                 | 5                     |                              |          |
| 12                             | 0       | 20.29     | 20.22                 | 20.16                 | 5                     |                              |          |
| 12                             | 6       | 20.39     | 20.32                 | 20.28                 | 5                     |                              |          |
| 256QAM                         | 12      | 13        | 20.40                 | 20.35                 | 20.29                 | 0-5                          | 5        |
|                                | 25      | 0         | 20.36                 | 20.30                 | 20.14                 |                              | 5        |

|                                      |                                                                                                                                                                                                                                                                                              |                               |                                 |
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## 9.4.2

## LTE Band 12

**Table 9-14**  
**LTE Band 12 Measured  $P_{\max}$  for all DSI - 10 MHz Bandwidth**

| LTE Band 12<br>10 MHz Bandwidth |         |           |                          |                              |          |
|---------------------------------|---------|-----------|--------------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Mid Channel              | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 23095<br>(707.5 MHz)     |                              |          |
|                                 |         |           | Conducted Power<br>[dBm] |                              |          |
| QPSK                            | 1       | 0         | 25.23                    | 0                            | 0        |
|                                 | 1       | 25        | 25.15                    |                              | 0        |
|                                 | 1       | 49        | 25.09                    |                              | 0        |
|                                 | 25      | 0         | 24.24                    | 0-1                          | 1        |
|                                 | 25      | 12        | 24.31                    |                              | 1        |
|                                 | 25      | 25        | 24.15                    |                              | 1        |
|                                 | 50      | 0         | 24.20                    |                              | 1        |
| 16QAM                           | 1       | 0         | 24.68                    | 0-1                          | 1        |
|                                 | 1       | 25        | 24.59                    |                              | 1        |
|                                 | 1       | 49        | 24.55                    |                              | 1        |
|                                 | 25      | 0         | 23.28                    | 0-2                          | 2        |
|                                 | 25      | 12        | 23.33                    |                              | 2        |
|                                 | 25      | 25        | 23.16                    |                              | 2        |
|                                 | 50      | 0         | 23.21                    |                              | 2        |
| 64QAM                           | 1       | 0         | 23.10                    | 0-2                          | 2        |
|                                 | 1       | 25        | 23.15                    |                              | 2        |
|                                 | 1       | 49        | 23.23                    |                              | 2        |
|                                 | 25      | 0         | 21.79                    | 0-3                          | 3        |
|                                 | 25      | 12        | 21.88                    |                              | 3        |
|                                 | 25      | 25        | 22.12                    |                              | 3        |
|                                 | 50      | 0         | 21.84                    |                              | 3        |
| 256QAM                          | 1       | 0         | 20.14                    | 0-5                          | 5        |
|                                 | 1       | 25        | 20.26                    |                              | 5        |
|                                 | 1       | 49        | 20.11                    |                              | 5        |
|                                 | 25      | 0         | 20.26                    |                              | 5        |
|                                 | 25      | 12        | 20.32                    |                              | 5        |
|                                 | 25      | 25        | 20.17                    |                              | 5        |
|                                 | 50      | 0         | 20.22                    |                              | 5        |

Note: LTE Band 12 at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 45 of 305                         |

**Table 9-15**  
**LTE Band 12 Measured P<sub>max</sub> for all DSI - 5 MHz Bandwidth**

| LTE Band 12<br>5 MHz Bandwidth |         |           |                       |                      |                      |                              |          |
|--------------------------------|---------|-----------|-----------------------|----------------------|----------------------|------------------------------|----------|
| Modulation                     | RB Size | RB Offset | Low Channel           | Mid Channel          | High Channel         | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                |         |           | 23035<br>(701.5 MHz)  | 23095<br>(707.5 MHz) | 23155<br>(713.5 MHz) |                              |          |
|                                |         |           | Conducted Power [dBm] |                      |                      |                              |          |
| QPSK                           | 1       | 0         | 25.50                 | 25.29                | 25.18                | 0                            | 0        |
|                                | 1       | 12        | 25.31                 | 25.34                | 25.29                |                              | 0        |
|                                | 1       | 24        | 25.24                 | 25.26                | 25.13                |                              | 0        |
|                                | 12      | 0         | 24.55                 | 24.31                | 24.28                | 0-1                          | 1        |
|                                | 12      | 6         | 24.51                 | 24.32                | 24.27                |                              | 1        |
|                                | 12      | 13        | 24.45                 | 24.30                | 24.23                |                              | 1        |
|                                | 25      | 0         | 24.49                 | 24.32                | 24.24                |                              | 1        |
| 16QAM                          | 1       | 0         | 24.77                 | 24.38                | 24.47                | 0-1                          | 1        |
|                                | 1       | 12        | 24.76                 | 24.29                | 24.13                |                              | 1        |
|                                | 1       | 24        | 24.70                 | 24.47                | 24.04                |                              | 1        |
|                                | 12      | 0         | 23.52                 | 23.39                | 23.29                | 0-2                          | 2        |
|                                | 12      | 6         | 23.55                 | 23.39                | 23.28                |                              | 2        |
|                                | 12      | 13        | 23.55                 | 23.30                | 23.28                |                              | 2        |
|                                | 25      | 0         | 23.57                 | 23.37                | 23.21                |                              | 2        |
| 64QAM                          | 1       | 0         | 23.21                 | 23.56                | 23.47                | 0-2                          | 2        |
|                                | 1       | 12        | 23.22                 | 23.39                | 23.35                |                              | 2        |
|                                | 1       | 24        | 23.32                 | 23.12                | 23.28                |                              | 2        |
|                                | 12      | 0         | 22.25                 | 21.86                | 22.36                | 0-3                          | 3        |
|                                | 12      | 6         | 22.16                 | 21.95                | 22.33                |                              | 3        |
|                                | 12      | 13        | 22.03                 | 22.13                | 22.19                |                              | 3        |
|                                | 25      | 0         | 22.05                 | 22.00                | 22.23                |                              | 3        |
| 256QAM                         | 1       | 0         | 20.64                 | 20.17                | 20.43                | 0-5                          | 5        |
|                                | 1       | 12        | 20.56                 | 20.39                | 20.45                |                              | 5        |
|                                | 1       | 24        | 20.47                 | 19.92                | 20.50                |                              | 5        |
|                                | 12      | 0         | 20.62                 | 20.28                | 20.25                |                              | 5        |
|                                | 12      | 6         | 20.47                 | 20.33                | 20.23                |                              | 5        |
|                                | 12      | 13        | 20.42                 | 20.31                | 20.24                |                              | 5        |
|                                | 25      | 0         | 20.52                 | 20.28                | 20.24                |                              | 5        |

|                                      |                                                                                                                                                                                                                                                                                              |                                 |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   | <div><b>PCTEST</b><br/><small>Proud to be part of Samsung</small></div> <div>SAR EVALUATION REPORT</div> <div></div> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01_A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                           | DUT Type:<br>Portable Handset   |
| Page 46 of 305                       |                                                                                                                                                                                                                                                                                              |                                 |

**Table 9-16**  
**LTE Band 12 Measured P<sub>max</sub> for all DSI - 3 MHz Bandwidth**

| LTE Band 12<br>3 MHz Bandwidth |         |           |                       |                      |                      |                              |          |
|--------------------------------|---------|-----------|-----------------------|----------------------|----------------------|------------------------------|----------|
| Modulation                     | RB Size | RB Offset | Low Channel           | Mid Channel          | High Channel         | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                |         |           | 23025<br>(700.5 MHz)  | 23095<br>(707.5 MHz) | 23165<br>(714.5 MHz) |                              |          |
|                                |         |           | Conducted Power [dBm] |                      |                      |                              |          |
| QPSK                           | 1       | 0         | 25.44                 | 25.35                | 25.18                | 0                            | 0        |
|                                | 1       | 7         | 25.28                 | 25.17                | 24.99                |                              | 0        |
|                                | 1       | 14        | 25.30                 | 25.24                | 25.03                |                              | 0        |
|                                | 8       | 0         | 24.55                 | 24.38                | 24.21                | 0-1                          | 1        |
|                                | 8       | 4         | 24.49                 | 24.32                | 24.22                |                              | 1        |
|                                | 8       | 7         | 24.45                 | 24.29                | 24.22                |                              | 1        |
|                                | 15      | 0         | 24.52                 | 24.28                | 24.20                |                              | 1        |
| 16QAM                          | 1       | 0         | 24.66                 | 24.44                | 24.49                | 0-1                          | 1        |
|                                | 1       | 7         | 24.54                 | 24.31                | 24.06                |                              | 1        |
|                                | 1       | 14        | 24.32                 | 24.21                | 24.02                |                              | 1        |
|                                | 8       | 0         | 23.55                 | 23.39                | 23.17                | 0-2                          | 2        |
|                                | 8       | 4         | 23.59                 | 23.31                | 23.33                |                              | 2        |
|                                | 8       | 7         | 23.51                 | 23.35                | 23.18                |                              | 2        |
|                                | 15      | 0         | 23.53                 | 23.33                | 23.08                |                              | 2        |
| 64QAM                          | 1       | 0         | 23.23                 | 22.96                | 23.33                | 0-2                          | 2        |
|                                | 1       | 7         | 23.51                 | 23.26                | 23.26                |                              | 2        |
|                                | 1       | 14        | 23.15                 | 23.12                | 22.83                |                              | 2        |
|                                | 8       | 0         | 22.08                 | 22.07                | 22.29                | 0-3                          | 3        |
|                                | 8       | 4         | 22.29                 | 22.18                | 22.26                |                              | 3        |
|                                | 8       | 7         | 22.21                 | 22.11                | 22.35                |                              | 3        |
|                                | 15      | 0         | 22.04                 | 21.97                | 22.19                |                              | 3        |
| 256QAM                         | 1       | 0         | 20.36                 | 20.43                | 20.51                | 0-5                          | 5        |
|                                | 1       | 7         | 20.66                 | 20.12                | 20.42                |                              | 5        |
|                                | 1       | 14        | 20.42                 | 20.43                | 20.33                |                              | 5        |
|                                | 8       | 0         | 20.53                 | 20.33                | 20.21                |                              | 5        |
|                                | 8       | 4         | 20.62                 | 20.33                | 20.38                |                              | 5        |
|                                | 8       | 7         | 20.51                 | 20.18                | 20.31                |                              | 5        |
|                                | 15      | 0         | 20.69                 | 20.40                | 20.21                |                              | 5        |

|                                      |                                                                                                                                                                                                                               |                               |                                                                                       |                                 |
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| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                            | DUT Type:<br>Portable Handset |                                                                                       | Page 47 of 305                  |

**Table 9-17**  
**LTE Band 12 Measured P<sub>max</sub> for all DSI - 1.4 MHz Bandwidth**

| LTE Band 12<br>1.4 MHz Bandwidth |         |           |                       |                      |                      |                              |          |
|----------------------------------|---------|-----------|-----------------------|----------------------|----------------------|------------------------------|----------|
| Modulation                       | RB Size | RB Offset | Low Channel           | Mid Channel          | High Channel         | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                  |         |           | 23017<br>(699.7 MHz)  | 23095<br>(707.5 MHz) | 23173<br>(715.3 MHz) |                              |          |
|                                  |         |           | Conducted Power [dBm] |                      |                      |                              |          |
| QPSK                             | 1       | 0         | 25.26                 | 25.25                | 25.03                | 0                            | 0        |
|                                  | 1       | 2         | 25.38                 | 25.21                | 25.08                |                              | 0        |
|                                  | 1       | 5         | 25.17                 | 25.08                | 25.04                |                              | 0        |
|                                  | 3       | 0         | 25.35                 | 25.16                | 24.98                |                              | 0        |
|                                  | 3       | 2         | 25.29                 | 25.22                | 25.03                |                              | 0        |
|                                  | 3       | 3         | 25.21                 | 25.12                | 25.04                |                              | 0        |
|                                  | 6       | 0         | 24.41                 | 24.22                | 24.07                | 0-1                          | 1        |
| 16QAM                            | 1       | 0         | 24.10                 | 24.16                | 24.28                | 0-1                          | 1        |
|                                  | 1       | 2         | 24.33                 | 24.03                | 23.84                |                              | 1        |
|                                  | 1       | 5         | 24.36                 | 24.11                | 24.22                |                              | 1        |
|                                  | 3       | 0         | 24.28                 | 24.07                | 24.18                |                              | 1        |
|                                  | 3       | 2         | 24.39                 | 24.12                | 24.28                |                              | 1        |
|                                  | 3       | 3         | 24.30                 | 24.18                | 23.97                |                              | 1        |
|                                  | 6       | 0         | 23.42                 | 23.28                | 23.18                | 0-2                          | 2        |
| 64QAM                            | 1       | 0         | 23.30                 | 23.12                | 23.40                | 0-2                          | 2        |
|                                  | 1       | 2         | 23.23                 | 23.05                | 22.92                |                              | 2        |
|                                  | 1       | 5         | 23.21                 | 23.07                | 22.99                |                              | 2        |
|                                  | 3       | 0         | 23.23                 | 23.18                | 23.29                |                              | 2        |
|                                  | 3       | 2         | 23.32                 | 22.88                | 23.24                |                              | 2        |
|                                  | 3       | 3         | 22.98                 | 23.27                | 23.04                |                              | 2        |
|                                  | 6       | 0         | 22.01                 | 22.07                | 22.02                | 0-3                          | 3        |
| 256QAM                           | 1       | 0         | 20.42                 | 20.28                | 19.92                | 0-5                          | 5        |
|                                  | 1       | 2         | 20.37                 | 20.38                | 20.20                |                              | 5        |
|                                  | 1       | 5         | 20.53                 | 20.32                | 20.01                |                              | 5        |
|                                  | 3       | 0         | 20.30                 | 20.41                | 20.08                |                              | 5        |
|                                  | 3       | 2         | 20.27                 | 20.05                | 20.03                |                              | 5        |
|                                  | 3       | 3         | 20.57                 | 20.30                | 20.09                |                              | 5        |
|                                  | 6       | 0         | 20.37                 | 20.25                | 20.07                |                              | 5        |

|                                             |                                                                                                                                                                                                                               |                                      |                                                                                       |                                        |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                     | <b>DUT Type:</b><br>Portable Handset | Page 48 of 305                                                                        |                                        |

### 9.4.3

### LTE Band 13

**Table 9-18**  
**LTE Band 13 Measured  $P_{\max}$  for all DSI - 10 MHz Bandwidth**

| LTE Band 13<br>10 MHz Bandwidth |         |           |                          |                              |          |
|---------------------------------|---------|-----------|--------------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Mid Channel              | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 23230<br>(782.0 MHz)     |                              |          |
|                                 |         |           | Conducted Power<br>[dBm] |                              |          |
| QPSK                            | 1       | 0         | 25.20                    | 0                            | 0        |
|                                 | 1       | 25        | <b>25.21</b>             |                              | 0        |
|                                 | 1       | 49        | 25.00                    |                              | 0        |
|                                 | 25      | 0         | <b>24.28</b>             | 0-1                          | 1        |
|                                 | 25      | 12        | 24.18                    |                              | 1        |
|                                 | 25      | 25        | 24.01                    |                              | 1        |
|                                 | 50      | 0         | 24.05                    |                              | 1        |
| 16QAM                           | 1       | 0         | 24.50                    | 0-1                          | 1        |
|                                 | 1       | 25        | 24.43                    |                              | 1        |
|                                 | 1       | 49        | 24.47                    |                              | 1        |
|                                 | 25      | 0         | 23.16                    | 0-2                          | 2        |
|                                 | 25      | 12        | 23.08                    |                              | 2        |
|                                 | 25      | 25        | 23.02                    |                              | 2        |
|                                 | 50      | 0         | 23.06                    |                              | 2        |
| 64QAM                           | 1       | 0         | 23.57                    | 0-2                          | 2        |
|                                 | 1       | 25        | 23.38                    |                              | 2        |
|                                 | 1       | 49        | 23.20                    |                              | 2        |
|                                 | 25      | 0         | 22.22                    | 0-3                          | 3        |
|                                 | 25      | 12        | 22.18                    |                              | 3        |
|                                 | 25      | 25        | 22.06                    |                              | 3        |
|                                 | 50      | 0         | 22.09                    |                              | 3        |
| 256QAM                          | 1       | 0         | 20.17                    | 0-5                          | 5        |
|                                 | 1       | 25        | 20.29                    |                              | 5        |
|                                 | 1       | 49        | 19.89                    |                              | 5        |
|                                 | 25      | 0         | 20.09                    |                              | 5        |
|                                 | 25      | 12        | 20.15                    |                              | 5        |
|                                 | 25      | 25        | 19.99                    |                              | 5        |
|                                 | 50      | 0         | 20.04                    |                              | 5        |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
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| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 49 of 305                         |



**Table 9-19**  
**LTE Band 13 Measured  $P_{\max}$  for all DSI - 5 MHz Bandwidth**

| LTE Band 13<br>5 MHz Bandwidth |         |           |                          |                              |          |
|--------------------------------|---------|-----------|--------------------------|------------------------------|----------|
| Modulation                     | RB Size | RB Offset | Mid Channel              | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                |         |           | 23230<br>(782.0 MHz)     |                              |          |
|                                |         |           | Conducted Power<br>[dBm] |                              |          |
| QPSK                           | 1       | 0         | 24.89                    | 0                            | 0        |
|                                | 1       | 12        | 24.76                    |                              | 0        |
|                                | 1       | 24        | 24.75                    |                              | 0        |
|                                | 12      | 0         | 23.93                    | 0-1                          | 1        |
|                                | 12      | 6         | 23.89                    |                              | 1        |
|                                | 12      | 13        | 23.87                    |                              | 1        |
|                                | 25      | 0         | 23.90                    |                              | 1        |
| 16QAM                          | 1       | 0         | 24.30                    | 0-1                          | 1        |
|                                | 1       | 12        | 24.10                    |                              | 1        |
|                                | 1       | 24        | 24.15                    |                              | 1        |
|                                | 12      | 0         | 23.06                    | 0-2                          | 2        |
|                                | 12      | 6         | 22.98                    |                              | 2        |
|                                | 12      | 13        | 23.00                    |                              | 2        |
|                                | 25      | 0         | 22.89                    |                              | 2        |
| 64QAM                          | 1       | 0         | 23.41                    | 0-2                          | 2        |
|                                | 1       | 12        | 23.27                    |                              | 2        |
|                                | 1       | 24        | 23.26                    |                              | 2        |
|                                | 12      | 0         | 22.05                    | 0-3                          | 3        |
|                                | 12      | 6         | 21.98                    |                              | 3        |
|                                | 12      | 13        | 21.96                    |                              | 3        |
|                                | 25      | 0         | 21.97                    |                              | 3        |
| 256QAM                         | 1       | 0         | 20.00                    | 0-5                          | 5        |
|                                | 1       | 12        | 19.98                    |                              | 5        |
|                                | 1       | 24        | 19.91                    |                              | 5        |
|                                | 12      | 0         | 20.05                    |                              | 5        |
|                                | 12      | 6         | 20.02                    |                              | 5        |
|                                | 12      | 13        | 19.91                    |                              | 5        |
|                                | 25      | 0         | 19.89                    |                              | 5        |

Note: LTE Band 13 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

|                                      |                                                                                                                                                        |                               |                                                                                       |                                 |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                     | DUT Type:<br>Portable Handset | Page 50 of 305                                                                        |                                 |

## 9.4.4

## LTE Band 14

Table 9-20  
LTE Band 14 Measured  $P_{\max}$  for all DSI - 10 MHz Bandwidth

| LTE Band 14<br>10 MHz Bandwidth |         |           |                          |                              |          |
|---------------------------------|---------|-----------|--------------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Mid Channel              | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 23330<br>(793.0 MHz)     |                              |          |
|                                 |         |           | Conducted Power<br>[dBm] |                              |          |
| QPSK                            | 1       | 0         | 25.06                    | 0                            | 0        |
|                                 | 1       | 25        | 24.97                    |                              | 0        |
|                                 | 1       | 49        | 25.01                    |                              | 0        |
|                                 | 25      | 0         | 24.04                    | 0-1                          | 1        |
|                                 | 25      | 12        | 24.02                    |                              | 1        |
|                                 | 25      | 25        | 24.07                    |                              | 1        |
|                                 | 50      | 0         | 23.96                    |                              | 1        |
| 16QAM                           | 1       | 0         | 24.49                    | 0-1                          | 1        |
|                                 | 1       | 25        | 24.47                    |                              | 1        |
|                                 | 1       | 49        | 24.35                    |                              | 1        |
|                                 | 25      | 0         | 22.98                    | 0-2                          | 2        |
|                                 | 25      | 12        | 23.08                    |                              | 2        |
|                                 | 25      | 25        | 23.05                    |                              | 2        |
|                                 | 50      | 0         | 23.01                    |                              | 2        |
| 64QAM                           | 1       | 0         | 23.16                    | 0-2                          | 2        |
|                                 | 1       | 25        | 22.85                    |                              | 2        |
|                                 | 1       | 49        | 23.17                    |                              | 2        |
|                                 | 25      | 0         | 22.03                    | 0-3                          | 3        |
|                                 | 25      | 12        | 21.53                    |                              | 3        |
|                                 | 25      | 25        | 21.55                    |                              | 3        |
|                                 | 50      | 0         | 21.72                    |                              | 3        |
| 256QAM                          | 1       | 0         | 19.89                    | 0-5                          | 5        |
|                                 | 1       | 25        | 20.15                    |                              | 5        |
|                                 | 1       | 49        | 20.07                    |                              | 5        |
|                                 | 25      | 0         | 20.02                    |                              | 5        |
|                                 | 25      | 12        | 20.06                    |                              | 5        |
|                                 | 25      | 25        | 20.02                    |                              | 5        |
|                                 | 50      | 0         | 19.97                    |                              | 5        |

FCC ID: A3LSMN986U



## SAR EVALUATION REPORT



Approved by:  
Quality Manager

Document S/N:

1M2004170065-01.A3L

Test Dates:

04/22/20 - 06/07/20

DUT Type:

Portable Handset

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**Table 9-21**  
**LTE Band 14 Measured  $P_{max}$  for all DSI - 5 MHz Bandwidth**

| LTE Band 14<br>5 MHz Bandwidth |         |           |                          |                              |          |
|--------------------------------|---------|-----------|--------------------------|------------------------------|----------|
| Modulation                     | RB Size | RB Offset | Mid Channel              | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                |         |           | 23330<br>(793.0 MHz)     |                              |          |
|                                |         |           | Conducted Power<br>[dBm] |                              |          |
| QPSK                           | 1       | 0         | 24.92                    | 0                            | 0        |
|                                | 1       | 12        | 24.99                    |                              | 0        |
|                                | 1       | 24        | 24.77                    |                              | 0        |
|                                | 12      | 0         | 24.08                    | 0-1                          | 1        |
|                                | 12      | 6         | 24.14                    |                              | 1        |
|                                | 12      | 13        | 24.03                    |                              | 1        |
|                                | 25      | 0         | 24.08                    |                              | 1        |
| 16QAM                          | 1       | 0         | 24.31                    | 0-1                          | 1        |
|                                | 1       | 12        | 24.29                    |                              | 1        |
|                                | 1       | 24        | 24.01                    |                              | 1        |
|                                | 12      | 0         | 23.18                    | 0-2                          | 2        |
|                                | 12      | 6         | 23.18                    |                              | 2        |
|                                | 12      | 13        | 23.13                    |                              | 2        |
|                                | 25      | 0         | 23.11                    |                              | 2        |
| 64QAM                          | 1       | 0         | 23.06                    | 0-2                          | 2        |
|                                | 1       | 12        | 22.58                    |                              | 2        |
|                                | 1       | 24        | 22.34                    |                              | 2        |
|                                | 12      | 0         | 21.64                    | 0-3                          | 3        |
|                                | 12      | 6         | 21.49                    |                              | 3        |
|                                | 12      | 13        | 21.38                    |                              | 3        |
|                                | 25      | 0         | 21.36                    |                              | 3        |
| 256QAM                         | 1       | 0         | 20.10                    | 0-5                          | 5        |
|                                | 1       | 12        | 20.19                    |                              | 5        |
|                                | 1       | 24        | 20.16                    |                              | 5        |
|                                | 12      | 0         | 20.15                    |                              | 5        |
|                                | 12      | 6         | 20.14                    |                              | 5        |
|                                | 12      | 13        | 20.11                    |                              | 5        |
|                                | 25      | 0         | 20.07                    |                              | 5        |

Note: LTE Band 14 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

|                                      |                                                                                                                                                                                                                                 |                               |                                                                                       |                                 |
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| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                              | DUT Type:<br>Portable Handset |                                                                                       | Page 52 of 305                  |

### 9.4.5

### LTE Band 26 (Cell)

Table 9-22  
LTE Band 26 (Cell) Measured  $P_{\max}$  for all DSI - 15 MHz Bandwidth

| LTE Band 26 (Cell)<br>15 MHz Bandwidth |         |           |                          |                              |          |
|----------------------------------------|---------|-----------|--------------------------|------------------------------|----------|
| Modulation                             | RB Size | RB Offset | Mid Channel              | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                        |         |           | 26865<br>(831.5 MHz)     |                              |          |
|                                        |         |           | Conducted Power<br>[dBm] |                              |          |
| QPSK                                   | 1       | 0         | 25.15                    | 0                            | 0        |
|                                        | 1       | 36        | <b>25.25</b>             |                              | 0        |
|                                        | 1       | 74        | 25.09                    |                              | 0        |
|                                        | 36      | 0         | 24.12                    | 0-1                          | 1        |
|                                        | 36      | 18        | <b>24.24</b>             |                              | 1        |
|                                        | 36      | 37        | 24.20                    |                              | 1        |
|                                        | 75      | 0         | 24.19                    |                              | 1        |
| 16QAM                                  | 1       | 0         | 24.47                    | 0-1                          | 1        |
|                                        | 1       | 36        | 24.51                    |                              | 1        |
|                                        | 1       | 74        | 24.43                    |                              | 1        |
|                                        | 36      | 0         | 23.15                    | 0-2                          | 2        |
|                                        | 36      | 18        | 23.20                    |                              | 2        |
|                                        | 36      | 37        | 23.23                    |                              | 2        |
|                                        | 75      | 0         | 23.24                    |                              | 2        |
| 64QAM                                  | 1       | 0         | 23.20                    | 0-2                          | 2        |
|                                        | 1       | 36        | 23.39                    |                              | 2        |
|                                        | 1       | 74        | 23.34                    |                              | 2        |
|                                        | 36      | 0         | 22.18                    | 0-3                          | 3        |
|                                        | 36      | 18        | 22.28                    |                              | 3        |
|                                        | 36      | 37        | 22.23                    |                              | 3        |
|                                        | 75      | 0         | 22.17                    |                              | 3        |
| 256QAM                                 | 1       | 0         | 20.05                    | 0-5                          | 5        |
|                                        | 1       | 36        | 20.35                    |                              | 5        |
|                                        | 1       | 74        | 20.14                    |                              | 5        |
|                                        | 36      | 0         | 20.08                    |                              | 5        |
|                                        | 36      | 18        | 20.17                    |                              | 5        |
|                                        | 36      | 37        | 20.23                    |                              | 5        |
|                                        | 75      | 0         | 20.15                    |                              | 5        |

Note: LTE Band 26 (Cell) at 15 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
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| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 53 of 305                         |

**Table 9-23**  
**LTE Band 26 (Cell) Measured P<sub>max</sub> for all DSI - 10 MHz Bandwidth**

| LTE Band 26 (Cell)<br>10 MHz Bandwidth |         |           |                       |                      |                      |                              |          |
|----------------------------------------|---------|-----------|-----------------------|----------------------|----------------------|------------------------------|----------|
| Modulation                             | RB Size | RB Offset | Low Channel           | Mid Channel          | High Channel         | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                        |         |           | 26740<br>(819.0 MHz)  | 26865<br>(831.5 MHz) | 26990<br>(844.0 MHz) |                              |          |
|                                        |         |           | Conducted Power [dBm] |                      |                      |                              |          |
| QPSK                                   | 1       | 0         | 25.22                 | 25.30                | 25.25                | 0                            | 0        |
|                                        | 1       | 25        | 25.23                 | 25.23                | 25.17                |                              | 0        |
|                                        | 1       | 49        | 25.29                 | 25.30                | 24.61                |                              | 0        |
|                                        | 25      | 0         | 23.97                 | 24.33                | 24.10                | 0-1                          | 1        |
|                                        | 25      | 12        | 24.16                 | 24.30                | 24.11                |                              | 1        |
|                                        | 25      | 25        | 24.11                 | 24.37                | 24.10                |                              | 1        |
|                                        | 50      | 0         | 24.05                 | 24.21                | 24.16                |                              | 1        |
| 16QAM                                  | 1       | 0         | 24.28                 | 24.43                | 24.23                | 0-1                          | 1        |
|                                        | 1       | 25        | 24.14                 | 24.41                | 23.77                |                              | 1        |
|                                        | 1       | 49        | 24.68                 | 24.34                | 23.97                |                              | 1        |
|                                        | 25      | 0         | 23.10                 | 23.30                | 23.06                | 0-2                          | 2        |
|                                        | 25      | 12        | 23.21                 | 23.48                | 23.18                |                              | 2        |
|                                        | 25      | 25        | 23.22                 | 23.51                | 23.21                |                              | 2        |
|                                        | 50      | 0         | 23.12                 | 23.32                | 23.10                |                              | 2        |
| 64QAM                                  | 1       | 0         | 23.03                 | 23.25                | 23.10                | 0-2                          | 2        |
|                                        | 1       | 25        | 23.20                 | 23.68                | 23.09                |                              | 2        |
|                                        | 1       | 49        | 23.56                 | 23.34                | 23.05                |                              | 2        |
|                                        | 25      | 0         | 22.02                 | 22.27                | 21.68                | 0-3                          | 3        |
|                                        | 25      | 12        | 22.20                 | 22.49                | 21.80                |                              | 3        |
|                                        | 25      | 25        | 22.16                 | 22.44                | 21.73                |                              | 3        |
|                                        | 50      | 0         | 22.05                 | 22.21                | 21.85                |                              | 3        |
| 256QAM                                 | 1       | 0         | 20.15                 | 20.07                | 20.12                | 0-5                          | 5        |
|                                        | 1       | 25        | 20.30                 | 20.25                | 20.02                |                              | 5        |
|                                        | 1       | 49        | 20.30                 | 20.68                | 20.27                |                              | 5        |
|                                        | 25      | 0         | 20.02                 | 20.34                | 20.13                |                              | 5        |
|                                        | 25      | 12        | 20.14                 | 20.30                | 20.23                |                              | 5        |
|                                        | 25      | 25        | 20.26                 | 20.35                | 20.26                |                              | 5        |
|                                        | 50      | 0         | 20.10                 | 20.32                | 20.22                |                              | 5        |

|                                             |                                                                                                                                                                                                                               |                                      |                                                                                       |                                        |
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| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                     | <b>DUT Type:</b><br>Portable Handset | Page 54 of 305                                                                        |                                        |

**Table 9-24**  
**LTE Band 26 (Cell) Measured P<sub>max</sub> for all DSI - 5 MHz Bandwidth**

| LTE Band 26 (Cell)<br>5 MHz Bandwidth |         |           |                       |                      |                      |                              |          |
|---------------------------------------|---------|-----------|-----------------------|----------------------|----------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel           | Mid Channel          | High Channel         | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 26715<br>(816.5 MHz)  | 26865<br>(831.5 MHz) | 27015<br>(846.5 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm] |                      |                      |                              |          |
| QPSK                                  | 1       | 0         | 24.70                 | 24.96                | 24.82                | 0                            | 0        |
|                                       | 1       | 12        | 24.80                 | 25.07                | 24.84                |                              | 0        |
|                                       | 1       | 24        | 24.79                 | 25.04                | 24.80                |                              | 0        |
|                                       | 12      | 0         | 23.77                 | 24.08                | 23.87                | 0-1                          | 1        |
|                                       | 12      | 6         | 23.89                 | 24.13                | 23.91                |                              | 1        |
|                                       | 12      | 13        | 23.85                 | 24.13                | 23.76                |                              | 1        |
|                                       | 25      | 0         | 23.83                 | 24.10                | 23.85                |                              | 1        |
| 16QAM                                 | 1       | 0         | 24.14                 | 24.18                | 23.99                | 0-1                          | 1        |
|                                       | 1       | 12        | 24.21                 | 24.26                | 24.00                |                              | 1        |
|                                       | 1       | 24        | 24.22                 | 24.26                | 23.51                |                              | 1        |
|                                       | 12      | 0         | 22.68                 | 23.16                | 22.94                | 0-2                          | 2        |
|                                       | 12      | 6         | 22.79                 | 23.22                | 23.01                |                              | 2        |
|                                       | 12      | 13        | 22.77                 | 23.22                | 22.95                |                              | 2        |
|                                       | 25      | 0         | 22.85                 | 23.09                | 22.89                |                              | 2        |
| 64QAM                                 | 1       | 0         | 22.69                 | 23.18                | 22.59                | 0-2                          | 2        |
|                                       | 1       | 12        | 23.11                 | 23.31                | 22.42                |                              | 2        |
|                                       | 1       | 24        | 23.19                 | 23.29                | 22.60                |                              | 2        |
|                                       | 12      | 0         | 21.61                 | 22.02                | 21.51                | 0-3                          | 3        |
|                                       | 12      | 6         | 21.82                 | 22.10                | 21.40                |                              | 3        |
|                                       | 12      | 13        | 21.86                 | 22.11                | 21.30                |                              | 3        |
|                                       | 25      | 0         | 21.63                 | 22.05                | 21.22                |                              | 3        |
| 256QAM                                | 1       | 0         | 19.67                 | 19.60                | 19.47                | 0-5                          | 5        |
|                                       | 1       | 12        | 19.79                 | 19.82                | 19.57                |                              | 5        |
|                                       | 1       | 24        | 19.82                 | 19.70                | 19.49                |                              | 5        |
|                                       | 12      | 0         | 19.89                 | 20.05                | 19.86                |                              | 5        |
|                                       | 12      | 6         | 20.00                 | 20.10                | 19.92                |                              | 5        |
|                                       | 12      | 13        | 20.01                 | 20.12                | 19.92                |                              | 5        |
|                                       | 25      | 0         | 19.90                 | 20.10                | 19.90                |                              | 5        |

|                                      |                                                                                                                                                                                                                                                                                              |                               |                                 |
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| Document S/N:<br>1M2004170065-01_A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 55 of 305                  |

**Table 9-25**  
**LTE Band 26 (Cell) Measured P<sub>max</sub> for all DSI - 3 MHz Bandwidth**

| LTE Band 26 (Cell)<br>3 MHz Bandwidth |         |           |                       |                      |                      |                              |          |
|---------------------------------------|---------|-----------|-----------------------|----------------------|----------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel           | Mid Channel          | High Channel         | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 26705<br>(815.5 MHz)  | 26865<br>(831.5 MHz) | 27025<br>(847.5 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm] |                      |                      |                              |          |
| QPSK                                  | 1       | 0         | 24.86                 | 24.97                | 24.80                | 0                            | 0        |
|                                       | 1       | 7         | 24.82                 | 25.04                | 24.52                |                              | 0        |
|                                       | 1       | 14        | 24.67                 | 25.08                | 24.21                |                              | 0        |
|                                       | 8       | 0         | 23.81                 | 24.07                | 23.92                | 0-1                          | 1        |
|                                       | 8       | 4         | 23.86                 | 24.11                | 23.89                |                              | 1        |
|                                       | 8       | 7         | 23.78                 | 24.16                | 23.64                |                              | 1        |
|                                       | 15      | 0         | 23.87                 | 24.11                | 23.90                |                              | 1        |
| 16QAM                                 | 1       | 0         | 23.79                 | 24.16                | 23.91                | 0-1                          | 1        |
|                                       | 1       | 7         | 23.80                 | 24.21                | 23.73                |                              | 1        |
|                                       | 1       | 14        | 23.86                 | 24.19                | 23.43                |                              | 1        |
|                                       | 8       | 0         | 22.93                 | 23.27                | 22.97                | 0-2                          | 2        |
|                                       | 8       | 4         | 22.99                 | 23.29                | 23.06                |                              | 2        |
|                                       | 8       | 7         | 22.92                 | 23.32                | 22.84                |                              | 2        |
|                                       | 15      | 0         | 22.87                 | 23.15                | 22.90                |                              | 2        |
| 64QAM                                 | 1       | 0         | 22.59                 | 23.16                | 22.63                | 0-2                          | 2        |
|                                       | 1       | 7         | 22.82                 | 23.26                | 22.73                |                              | 2        |
|                                       | 1       | 14        | 22.93                 | 23.24                | 22.74                |                              | 2        |
|                                       | 8       | 0         | 21.60                 | 22.07                | 21.87                | 0-3                          | 3        |
|                                       | 8       | 4         | 21.78                 | 22.14                | 21.65                |                              | 3        |
|                                       | 8       | 7         | 21.83                 | 22.14                | 21.42                |                              | 3        |
|                                       | 15      | 0         | 21.60                 | 22.28                | 21.54                |                              | 3        |
| 256QAM                                | 1       | 0         | 19.59                 | 20.60                | 19.58                | 0-5                          | 5        |
|                                       | 1       | 7         | 19.58                 | 20.73                | 19.65                |                              | 5        |
|                                       | 1       | 14        | 19.63                 | 20.64                | 19.67                |                              | 5        |
|                                       | 8       | 0         | 19.96                 | 20.21                | 19.96                |                              | 5        |
|                                       | 8       | 4         | 19.96                 | 20.21                | 20.09                |                              | 5        |
|                                       | 8       | 7         | 19.90                 | 20.25                | 20.02                |                              | 5        |
|                                       | 15      | 0         | 19.92                 | 20.08                | 19.99                |                              | 5        |

|                                      |                                                                                                                                                                                                                                                                                              |                               |                                 |
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| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 56 of 305                  |



**Table 9-26**  
**LTE Band 26 (Cell) Measured P<sub>max</sub> for all DSI - 1.4 MHz Bandwidth**

| LTE Band 26 (Cell)<br>1.4 MHz Bandwidth |         |           |                       |                      |                      |                              |          |
|-----------------------------------------|---------|-----------|-----------------------|----------------------|----------------------|------------------------------|----------|
| Modulation                              | RB Size | RB Offset | Low Channel           | Mid Channel          | High Channel         | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                         |         |           | 26697<br>(814.7 MHz)  | 26865<br>(831.5 MHz) | 27033<br>(848.3 MHz) |                              |          |
|                                         |         |           | Conducted Power [dBm] |                      |                      |                              |          |
| QPSK                                    | 1       | 0         | 24.84                 | 24.89                | 24.42                | 0                            | 0        |
|                                         | 1       | 2         | 24.87                 | 25.03                | 24.31                |                              | 0        |
|                                         | 1       | 5         | 24.80                 | 24.98                | 24.14                |                              | 0        |
|                                         | 3       | 0         | 24.72                 | 24.97                | 24.46                |                              | 0        |
|                                         | 3       | 2         | 24.74                 | 25.07                | 24.42                |                              | 0        |
|                                         | 3       | 3         | 24.70                 | 25.03                | 24.28                |                              | 0        |
|                                         | 6       | 0         | 23.77                 | 24.05                | 23.56                | 0-1                          | 1        |
| 16QAM                                   | 1       | 0         | 23.54                 | 24.05                | 23.59                | 0-1                          | 1        |
|                                         | 1       | 2         | 23.61                 | 24.18                | 23.50                |                              | 1        |
|                                         | 1       | 5         | 23.57                 | 24.10                | 23.35                |                              | 1        |
|                                         | 3       | 0         | 23.79                 | 24.03                | 23.48                |                              | 1        |
|                                         | 3       | 2         | 23.84                 | 24.18                | 23.43                |                              | 1        |
|                                         | 3       | 3         | 23.81                 | 24.09                | 23.35                |                              | 1        |
|                                         | 6       | 0         | 22.81                 | 23.12                | 22.61                | 0-2                          | 2        |
| 64QAM                                   | 1       | 0         | 22.60                 | 23.11                | 22.42                | 0-2                          | 2        |
|                                         | 1       | 2         | 22.77                 | 23.26                | 22.36                |                              | 2        |
|                                         | 1       | 5         | 22.76                 | 23.15                | 22.19                |                              | 2        |
|                                         | 3       | 0         | 22.45                 | 23.29                | 22.37                |                              | 2        |
|                                         | 3       | 2         | 22.57                 | 23.43                | 22.28                |                              | 2        |
|                                         | 3       | 3         | 22.62                 | 23.35                | 22.17                |                              | 2        |
|                                         | 6       | 0         | 21.53                 | 22.24                | 21.30                | 0-3                          | 3        |
| 256QAM                                  | 1       | 0         | 19.84                 | 19.79                | 19.88                | 0-5                          | 5        |
|                                         | 1       | 2         | 19.96                 | 19.90                | 19.92                |                              | 5        |
|                                         | 1       | 5         | 19.85                 | 19.80                | 19.92                |                              | 5        |
|                                         | 3       | 0         | 19.88                 | 20.06                | 19.89                |                              | 5        |
|                                         | 3       | 2         | 19.93                 | 20.17                | 20.00                |                              | 5        |
|                                         | 3       | 3         | 19.84                 | 20.09                | 19.94                |                              | 5        |
|                                         | 6       | 0         | 19.86                 | 20.13                | 19.75                |                              | 5        |

|                                             |                                                                                                                                                                                                                             |                                      |                                                                                       |                                        |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                   | <b>DUT Type:</b><br>Portable Handset | Page 57 of 305                                                                        |                                        |

## 9.4.6

## LTE Band 5 (Cell)

**Table 9-27**  
**LTE Band 5 (Cell) Measured  $P_{\max}$  for all DSI - 10 MHz Bandwidth**

| LTE Band 5 (Cell)<br>10 MHz Bandwidth |         |           |                          |                              |          |
|---------------------------------------|---------|-----------|--------------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Mid Channel              | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 20525<br>(836.5 MHz)     |                              |          |
|                                       |         |           | Conducted Power<br>[dBm] |                              |          |
| QPSK                                  | 1       | 0         | <b>25.15</b>             | 0                            | 0        |
|                                       | 1       | 25        | 25.08                    |                              | 0        |
|                                       | 1       | 49        | 25.00                    |                              | 0        |
|                                       | 25      | 0         | 24.09                    | 0-1                          | 1        |
|                                       | 25      | 12        | <b>24.16</b>             |                              | 1        |
|                                       | 25      | 25        | 24.00                    |                              | 1        |
|                                       | 50      | 0         | 24.03                    |                              | 1        |
| 16QAM                                 | 1       | 0         | 24.66                    | 0-1                          | 1        |
|                                       | 1       | 25        | 24.61                    |                              | 1        |
|                                       | 1       | 49        | 24.45                    |                              | 1        |
|                                       | 25      | 0         | 23.13                    | 0-2                          | 2        |
|                                       | 25      | 12        | 23.17                    |                              | 2        |
|                                       | 25      | 25        | 23.02                    |                              | 2        |
|                                       | 50      | 0         | 23.06                    |                              | 2        |
| 64QAM                                 | 1       | 0         | 23.40                    | 0-2                          | 2        |
|                                       | 1       | 25        | 23.41                    |                              | 2        |
|                                       | 1       | 49        | 22.86                    |                              | 2        |
|                                       | 25      | 0         | 22.11                    | 0-3                          | 3        |
|                                       | 25      | 12        | 22.20                    |                              | 3        |
|                                       | 25      | 25        | 22.04                    |                              | 3        |
|                                       | 50      | 0         | 22.08                    |                              | 3        |
| 256QAM                                | 1       | 0         | 20.47                    | 0-5                          | 5        |
|                                       | 1       | 25        | 20.67                    |                              | 5        |
|                                       | 1       | 49        | 20.22                    |                              | 5        |
|                                       | 25      | 0         | 20.18                    |                              | 5        |
|                                       | 25      | 12        | 20.32                    |                              | 5        |
|                                       | 25      | 25        | 20.10                    |                              | 5        |
|                                       | 50      | 0         | 20.08                    |                              | 5        |

Note: LTE Band 5 (Cell) at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 58 of 305                         |

**Table 9-28**  
**LTE Band 5 (Cell) Measured P<sub>max</sub> for all DSI - 5 MHz Bandwidth**

| LTE Band 5 (Cell)<br>5 MHz Bandwidth |         |           |                       |                      |                      |                              |          |
|--------------------------------------|---------|-----------|-----------------------|----------------------|----------------------|------------------------------|----------|
| Modulation                           | RB Size | RB Offset | Low Channel           | Mid Channel          | High Channel         | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                      |         |           | 20425<br>(826.5 MHz)  | 20525<br>(836.5 MHz) | 20625<br>(846.5 MHz) |                              |          |
|                                      |         |           | Conducted Power [dBm] |                      |                      |                              |          |
| QPSK                                 | 1       | 0         | 24.75                 | 24.85                | 24.65                | 0                            | 0        |
|                                      | 1       | 12        | 24.88                 | 24.89                | 24.64                |                              | 0        |
|                                      | 1       | 24        | 24.83                 | 24.79                | 24.70                |                              | 0        |
|                                      | 12      | 0         | 24.01                 | 23.98                | 23.71                | 0-1                          | 1        |
|                                      | 12      | 6         | 24.04                 | 24.02                | 23.75                |                              | 1        |
|                                      | 12      | 13        | 24.00                 | 23.94                | 23.65                |                              | 1        |
|                                      | 25      | 0         | 24.07                 | 23.98                | 23.67                |                              | 1        |
| 16QAM                                | 1       | 0         | 23.93                 | 24.37                | 24.08                | 0-1                          | 1        |
|                                      | 1       | 12        | 24.02                 | 24.44                | 24.08                |                              | 1        |
|                                      | 1       | 24        | 23.96                 | 24.31                | 24.12                |                              | 1        |
|                                      | 12      | 0         | 23.06                 | 22.88                | 23.12                | 0-2                          | 2        |
|                                      | 12      | 6         | 23.11                 | 22.94                | 23.12                |                              | 2        |
|                                      | 12      | 13        | 23.06                 | 22.85                | 23.05                |                              | 2        |
|                                      | 25      | 0         | 23.03                 | 23.03                | 22.95                |                              | 2        |
| 64QAM                                | 1       | 0         | 23.01                 | 23.13                | 22.92                | 0-2                          | 2        |
|                                      | 1       | 12        | 23.16                 | 23.17                | 22.93                |                              | 2        |
|                                      | 1       | 24        | 23.11                 | 23.05                | 22.95                |                              | 2        |
|                                      | 12      | 0         | 21.93                 | 21.97                | 21.83                | 0-3                          | 3        |
|                                      | 12      | 6         | 21.96                 | 22.04                | 21.67                |                              | 3        |
|                                      | 12      | 13        | 21.84                 | 21.95                | 22.12                |                              | 3        |
|                                      | 25      | 0         | 21.83                 | 21.94                | 22.10                |                              | 3        |
| 256QAM                               | 1       | 0         | 20.31                 | 20.08                | 20.00                | 0-5                          | 5        |
|                                      | 1       | 12        | 20.38                 | 20.22                | 20.04                |                              | 5        |
|                                      | 1       | 24        | 20.32                 | 20.05                | 19.95                |                              | 5        |
|                                      | 12      | 0         | 20.08                 | 20.11                | 19.70                |                              | 5        |
|                                      | 12      | 6         | 20.15                 | 20.10                | 19.81                |                              | 5        |
|                                      | 12      | 13        | 20.07                 | 20.03                | 19.74                |                              | 5        |
|                                      | 25      | 0         | 20.00                 | 20.03                | 19.69                |                              | 5        |

|                                      |                                                                                                                                                                                                                               |                               |                                        |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                            | DUT Type:<br>Portable Handset | Page 59 of 305                         |

**Table 9-29**  
**LTE Band 5 (Cell) Measured P<sub>max</sub> for all DSI - 3 MHz Bandwidth**

| LTE Band 5 (Cell)<br>3 MHz Bandwidth |         |           |                       |                      |                      |                              |          |
|--------------------------------------|---------|-----------|-----------------------|----------------------|----------------------|------------------------------|----------|
| Modulation                           | RB Size | RB Offset | Low Channel           | Mid Channel          | High Channel         | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                      |         |           | 20415<br>(825.5 MHz)  | 20525<br>(836.5 MHz) | 20635<br>(847.5 MHz) |                              |          |
|                                      |         |           | Conducted Power [dBm] |                      |                      |                              |          |
| QPSK                                 | 1       | 0         | 24.84                 | 24.90                | 24.77                | 0                            | 0        |
|                                      | 1       | 7         | 24.83                 | 24.83                | 24.80                |                              | 0        |
|                                      | 1       | 14        | 24.86                 | 24.79                | 24.67                |                              | 0        |
|                                      | 8       | 0         | 24.04                 | 23.91                | 23.64                | 0-1                          | 1        |
|                                      | 8       | 4         | 24.02                 | 23.94                | 23.68                |                              | 1        |
|                                      | 8       | 7         | 24.01                 | 23.98                | 23.64                |                              | 1        |
|                                      | 15      | 0         | 24.06                 | 23.99                | 23.65                |                              | 1        |
| 16QAM                                | 1       | 0         | 24.45                 | 24.35                | 24.33                | 0-1                          | 1        |
|                                      | 1       | 7         | 24.43                 | 24.17                | 24.34                |                              | 1        |
|                                      | 1       | 14        | 24.41                 | 24.17                | 24.37                |                              | 1        |
|                                      | 8       | 0         | 23.21                 | 23.11                | 22.80                | 0-2                          | 2        |
|                                      | 8       | 4         | 23.22                 | 23.15                | 22.84                |                              | 2        |
|                                      | 8       | 7         | 23.16                 | 23.11                | 22.79                |                              | 2        |
|                                      | 15      | 0         | 23.12                 | 22.95                | 22.71                |                              | 2        |
| 64QAM                                | 1       | 0         | 22.91                 | 23.02                | 22.83                | 0-2                          | 2        |
|                                      | 1       | 7         | 22.87                 | 23.05                | 22.69                |                              | 2        |
|                                      | 1       | 14        | 22.94                 | 22.96                | 22.68                |                              | 2        |
|                                      | 8       | 0         | 21.87                 | 21.93                | 21.85                | 0-3                          | 3        |
|                                      | 8       | 4         | 21.92                 | 21.98                | 22.00                |                              | 3        |
|                                      | 8       | 7         | 21.94                 | 21.94                | 21.62                |                              | 3        |
|                                      | 15      | 0         | 21.90                 | 22.09                | 21.77                |                              | 3        |
| 256QAM                               | 1       | 0         | 20.07                 | 20.51                | 19.72                | 0-5                          | 5        |
|                                      | 1       | 7         | 20.02                 | 20.47                | 19.66                |                              | 5        |
|                                      | 1       | 14        | 20.07                 | 20.32                | 19.66                |                              | 5        |
|                                      | 8       | 0         | 20.03                 | 20.05                | 19.68                |                              | 5        |
|                                      | 8       | 4         | 20.04                 | 20.12                | 19.72                |                              | 5        |
|                                      | 8       | 7         | 20.00                 | 20.07                | 19.65                |                              | 5        |
|                                      | 15      | 0         | 20.08                 | 20.00                | 19.68                |                              | 5        |

|                                      |                                                                                                                                                                                                                                                                                              |                               |                                 |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   | <div><b>PCTEST</b><br/><small>Proud to be part of Samsung</small></div> <div>SAR EVALUATION REPORT</div> <div></div> |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 60 of 305                  |

**Table 9-30**  
**LTE Band 5 (Cell) Measured P<sub>max</sub> for all DSI - 1.4 MHz Bandwidth**

| LTE Band 5 (Cell)<br>1.4 MHz Bandwidth |         |           |                       |                      |                      |                              |          |
|----------------------------------------|---------|-----------|-----------------------|----------------------|----------------------|------------------------------|----------|
| Modulation                             | RB Size | RB Offset | Low Channel           | Mid Channel          | High Channel         | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                        |         |           | 20407<br>(824.7 MHz)  | 20525<br>(836.5 MHz) | 20643<br>(848.3 MHz) |                              |          |
|                                        |         |           | Conducted Power [dBm] |                      |                      |                              |          |
| QPSK                                   | 1       | 0         | 25.12                 | 25.05                | 24.73                | 0                            | 0        |
|                                        | 1       | 2         | 25.16                 | 25.11                | 24.75                |                              | 0        |
|                                        | 1       | 5         | 25.09                 | 25.05                | 24.64                |                              | 0        |
|                                        | 3       | 0         | 25.21                 | 25.15                | 24.59                |                              | 0        |
|                                        | 3       | 2         | 25.25                 | 25.21                | 24.67                |                              | 0        |
|                                        | 3       | 3         | 25.20                 | 25.15                | 24.66                |                              | 0        |
|                                        | 6       | 0         | 24.30                 | 24.17                | 23.77                | 0-1                          | 1        |
| 16QAM                                  | 1       | 0         | 23.96                 | 24.18                | 23.84                | 0-1                          | 1        |
|                                        | 1       | 2         | 23.97                 | 24.21                | 23.82                |                              | 1        |
|                                        | 1       | 5         | 23.95                 | 24.17                | 23.68                |                              | 1        |
|                                        | 3       | 0         | 23.90                 | 24.12                | 23.82                |                              | 1        |
|                                        | 3       | 2         | 23.92                 | 24.19                | 23.76                |                              | 1        |
|                                        | 3       | 3         | 23.85                 | 24.09                | 23.68                |                              | 1        |
|                                        | 6       | 0         | 22.99                 | 23.16                | 22.92                | 0-2                          | 2        |
| 64QAM                                  | 1       | 0         | 23.04                 | 23.33                | 23.16                | 0-2                          | 2        |
|                                        | 1       | 2         | 23.07                 | 23.41                | 23.10                |                              | 2        |
|                                        | 1       | 5         | 23.05                 | 23.38                | 22.86                |                              | 2        |
|                                        | 3       | 0         | 22.97                 | 23.29                | 23.25                |                              | 2        |
|                                        | 3       | 2         | 23.01                 | 23.36                | 23.22                |                              | 2        |
|                                        | 3       | 3         | 22.95                 | 23.28                | 23.08                |                              | 2        |
|                                        | 6       | 0         | 21.97                 | 22.26                | 22.20                | 0-3                          | 3        |
| 256QAM                                 | 1       | 0         | 19.92                 | 20.41                | 19.80                | 0-5                          | 5        |
|                                        | 1       | 2         | 20.04                 | 20.49                | 19.94                |                              | 5        |
|                                        | 1       | 5         | 19.94                 | 20.32                | 19.83                |                              | 5        |
|                                        | 3       | 0         | 19.91                 | 20.16                | 19.78                |                              | 5        |
|                                        | 3       | 2         | 19.95                 | 20.19                | 19.84                |                              | 5        |
|                                        | 3       | 3         | 19.96                 | 20.12                | 19.83                |                              | 5        |
|                                        | 6       | 0         | 20.09                 | 20.29                | 19.99                |                              | 5        |

|                                      |                                                                                                                                                                                                                               |                               |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                            | DUT Type:<br>Portable Handset |                                                                                       | Page 61 of 305                  |

## 9.4.7

## LTE Band 66 (AWS)

Table 9-31

LTE Band 66 (AWS) Measured  $P_{\max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 20 MHz Bandwidth

| LTE Band 66 (AWS)<br>20 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|---------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 132072<br>(1720.0 MHz) | 132322<br>(1745.0 MHz) | 132572<br>(1770.0 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                  | 1       | 0         | 23.46                  | 23.35                  | 23.67                  | 0                            | 0        |
|                                       | 1       | 50        | 23.68                  | 23.54                  | 23.59                  |                              | 0        |
|                                       | 1       | 99        | 23.50                  | 23.31                  | 23.59                  |                              | 0        |
|                                       | 50      | 0         | 22.88                  | 22.62                  | 22.61                  | 0-1                          | 1        |
|                                       | 50      | 25        | 22.91                  | 22.73                  | 22.62                  |                              | 1        |
|                                       | 50      | 50        | 22.79                  | 22.59                  | 22.63                  |                              | 1        |
|                                       | 100     | 0         | 22.84                  | 22.64                  | 22.54                  |                              | 1        |
| 16QAM                                 | 1       | 0         | 23.18                  | 22.60                  | 23.10                  | 0-1                          | 1        |
|                                       | 1       | 50        | 23.37                  | 22.80                  | 23.04                  |                              | 1        |
|                                       | 1       | 99        | 23.06                  | 22.60                  | 23.00                  |                              | 1        |
|                                       | 50      | 0         | 21.89                  | 21.66                  | 21.59                  | 0-2                          | 2        |
|                                       | 50      | 25        | 21.90                  | 21.73                  | 21.63                  |                              | 2        |
|                                       | 50      | 50        | 21.79                  | 21.67                  | 21.61                  |                              | 2        |
|                                       | 100     | 0         | 21.84                  | 21.67                  | 21.60                  |                              | 2        |
| 64QAM                                 | 1       | 0         | 21.53                  | 21.52                  | 22.01                  | 0-2                          | 2        |
|                                       | 1       | 50        | 21.65                  | 21.83                  | 22.01                  |                              | 2        |
|                                       | 1       | 99        | 21.47                  | 21.60                  | 21.97                  |                              | 2        |
|                                       | 50      | 0         | 20.92                  | 20.71                  | 20.61                  | 0-3                          | 3        |
|                                       | 50      | 25        | 20.96                  | 20.82                  | 20.65                  |                              | 3        |
|                                       | 50      | 50        | 20.84                  | 20.70                  | 20.63                  |                              | 3        |
|                                       | 100     | 0         | 20.90                  | 20.71                  | 20.60                  |                              | 3        |
| 256QAM                                | 1       | 0         | 18.72                  | 18.85                  | 18.85                  | 0-5                          | 5        |
|                                       | 1       | 50        | 19.00                  | 19.13                  | 19.16                  |                              | 5        |
|                                       | 1       | 99        | 18.72                  | 18.98                  | 18.90                  |                              | 5        |
|                                       | 50      | 0         | 18.89                  | 18.63                  | 18.64                  |                              | 5        |
|                                       | 50      | 25        | 18.95                  | 18.76                  | 18.67                  |                              | 5        |
|                                       | 50      | 50        | 18.77                  | 18.63                  | 18.62                  |                              | 5        |
|                                       | 100     | 0         | 18.91                  | 18.71                  | 18.63                  |                              | 5        |

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 62 of 305                         |

Table 9-32

**LTE Band 66 (AWS) Measured  $P_{\max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 15 MHz Bandwidth**

| LTE Band 66 (AWS)<br>15 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|---------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 132047<br>(1717.5 MHz) | 132322<br>(1745.0 MHz) | 132597<br>(1772.5 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                  | 1       | 0         | 23.54                  | 23.41                  | 23.48                  | 0                            | 0        |
|                                       | 1       | 36        | 23.64                  | 23.57                  | 23.53                  |                              | 0        |
|                                       | 1       | 74        | 23.41                  | 23.36                  | 23.42                  |                              | 0        |
|                                       | 36      | 0         | 22.68                  | 22.42                  | 22.42                  | 0-1                          | 1        |
|                                       | 36      | 18        | 22.69                  | 22.50                  | 22.43                  |                              | 1        |
|                                       | 36      | 37        | 22.57                  | 22.43                  | 22.41                  |                              | 1        |
|                                       | 75      | 0         | 22.62                  | 22.44                  | 22.34                  |                              | 1        |
| 16QAM                                 | 1       | 0         | 22.38                  | 22.37                  | 22.62                  | 0-1                          | 1        |
|                                       | 1       | 36        | 22.53                  | 22.50                  | 22.60                  |                              | 1        |
|                                       | 1       | 74        | 22.25                  | 22.50                  | 22.50                  |                              | 1        |
|                                       | 36      | 0         | 21.72                  | 21.47                  | 21.51                  | 0-2                          | 2        |
|                                       | 36      | 18        | 21.78                  | 21.53                  | 21.57                  |                              | 2        |
|                                       | 36      | 37        | 21.63                  | 21.42                  | 21.54                  |                              | 2        |
|                                       | 75      | 0         | 21.62                  | 21.47                  | 21.37                  |                              | 2        |
| 64QAM                                 | 1       | 0         | 21.64                  | 21.34                  | 21.44                  | 0-2                          | 2        |
|                                       | 1       | 36        | 21.89                  | 21.53                  | 21.54                  |                              | 2        |
|                                       | 1       | 74        | 21.61                  | 21.27                  | 21.36                  |                              | 2        |
|                                       | 36      | 0         | 20.71                  | 20.55                  | 20.51                  | 0-3                          | 3        |
|                                       | 36      | 18        | 20.71                  | 20.60                  | 20.53                  |                              | 3        |
|                                       | 36      | 37        | 20.60                  | 20.53                  | 20.52                  |                              | 3        |
|                                       | 75      | 0         | 20.69                  | 20.54                  | 20.34                  |                              | 3        |
| 256QAM                                | 1       | 0         | 19.04                  | 18.69                  | 18.93                  | 0-5                          | 5        |
|                                       | 1       | 36        | 19.24                  | 18.89                  | 18.84                  |                              | 5        |
|                                       | 1       | 74        | 18.98                  | 18.66                  | 18.88                  |                              | 5        |
|                                       | 36      | 0         | 19.10                  | 18.80                  | 18.84                  |                              | 5        |
|                                       | 36      | 18        | 19.10                  | 18.89                  | 18.83                  |                              | 5        |
|                                       | 36      | 37        | 18.99                  | 18.77                  | 18.78                  |                              | 5        |
|                                       | 75      | 0         | 19.03                  | 18.84                  | 18.76                  |                              | 5        |

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## SAR EVALUATION REPORT



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DUT Type:  
Portable Handset

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Table 9-33

**LTE Band 66 (AWS) Measured  $P_{\max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 10 MHz Bandwidth**

| LTE Band 66 (AWS)<br>10 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|---------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 132022<br>(1715.0 MHz) | 132322<br>(1745.0 MHz) | 132622<br>(1775.0 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                  | 1       | 0         | 23.66                  | 23.49                  | 23.42                  | 0                            | 0        |
|                                       | 1       | 25        | 23.91                  | 23.71                  | 23.66                  |                              | 0        |
|                                       | 1       | 49        | 23.61                  | 23.51                  | 23.45                  |                              | 0        |
|                                       | 25      | 0         | 22.90                  | 22.65                  | 22.63                  | 0-1                          | 1        |
|                                       | 25      | 12        | 22.96                  | 22.77                  | 22.75                  |                              | 1        |
|                                       | 25      | 25        | 22.83                  | 22.65                  | 22.69                  |                              | 1        |
|                                       | 50      | 0         | 22.89                  | 22.67                  | 22.63                  |                              | 1        |
| 16QAM                                 | 1       | 0         | 22.48                  | 22.41                  | 22.50                  | 0-1                          | 1        |
|                                       | 1       | 25        | 22.66                  | 22.49                  | 22.75                  |                              | 1        |
|                                       | 1       | 49        | 22.66                  | 22.30                  | 22.54                  |                              | 1        |
|                                       | 25      | 0         | 21.48                  | 21.18                  | 21.42                  | 0-2                          | 2        |
|                                       | 25      | 12        | 21.55                  | 21.33                  | 21.44                  |                              | 2        |
|                                       | 25      | 25        | 21.46                  | 21.18                  | 21.42                  |                              | 2        |
|                                       | 50      | 0         | 21.36                  | 21.14                  | 21.29                  |                              | 2        |
| 64QAM                                 | 1       | 0         | 21.36                  | 21.26                  | 21.45                  | 0-2                          | 2        |
|                                       | 1       | 25        | 21.60                  | 21.26                  | 21.50                  |                              | 2        |
|                                       | 1       | 49        | 21.49                  | 21.00                  | 21.50                  |                              | 2        |
|                                       | 25      | 0         | 20.54                  | 20.44                  | 20.40                  | 0-3                          | 3        |
|                                       | 25      | 12        | 20.56                  | 20.51                  | 20.45                  |                              | 3        |
|                                       | 25      | 25        | 20.45                  | 20.53                  | 20.41                  |                              | 3        |
|                                       | 50      | 0         | 20.42                  | 20.41                  | 20.36                  |                              | 3        |
| 256QAM                                | 1       | 0         | 18.64                  | 18.53                  | 19.03                  | 0-5                          | 5        |
|                                       | 1       | 25        | 18.73                  | 18.86                  | 19.04                  |                              | 5        |
|                                       | 1       | 49        | 18.54                  | 18.58                  | 19.00                  |                              | 5        |
|                                       | 25      | 0         | 19.08                  | 18.74                  | 18.76                  |                              | 5        |
|                                       | 25      | 12        | 19.14                  | 18.89                  | 18.85                  |                              | 5        |
|                                       | 25      | 25        | 19.06                  | 18.72                  | 18.85                  |                              | 5        |
|                                       | 50      | 0         | 18.98                  | 18.78                  | 18.70                  |                              | 5        |

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DUT Type:

Portable Handset

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Table 9-34

LTE Band 66 (AWS) Measured  $P_{\max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 5 MHz Bandwidth

| LTE Band 66 (AWS)<br>5 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|--------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                           | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                      |         |           | 131997<br>(1712.5 MHz) | 132322<br>(1745.0 MHz) | 132647<br>(1777.5 MHz) |                              |          |
|                                      |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                 | 1       | 0         | 23.42                  | 23.47                  | 23.43                  | 0                            | 0        |
|                                      | 1       | 12        | 23.39                  | 23.48                  | 23.40                  |                              | 0        |
|                                      | 1       | 24        | 23.26                  | 23.45                  | 23.35                  |                              | 0        |
|                                      | 12      | 0         | 22.50                  | 22.50                  | 22.47                  | 0-1                          | 1        |
|                                      | 12      | 6         | 22.49                  | 22.53                  | 22.43                  |                              | 1        |
|                                      | 12      | 13        | 22.43                  | 22.45                  | 22.33                  |                              | 1        |
|                                      | 25      | 0         | 22.40                  | 22.49                  | 22.36                  |                              | 1        |
| 16QAM                                | 1       | 0         | 22.88                  | 22.38                  | 22.38                  | 0-1                          | 1        |
|                                      | 1       | 12        | 22.89                  | 22.41                  | 22.40                  |                              | 1        |
|                                      | 1       | 24        | 22.82                  | 22.30                  | 22.39                  |                              | 1        |
|                                      | 12      | 0         | 21.43                  | 21.55                  | 21.45                  | 0-2                          | 2        |
|                                      | 12      | 6         | 21.42                  | 21.59                  | 21.46                  |                              | 2        |
|                                      | 12      | 13        | 21.30                  | 21.50                  | 21.39                  |                              | 2        |
|                                      | 25      | 0         | 21.53                  | 21.51                  | 21.39                  |                              | 2        |
| 64QAM                                | 1       | 0         | 21.70                  | 21.37                  | 21.40                  | 0-2                          | 2        |
|                                      | 1       | 12        | 21.62                  | 21.47                  | 21.40                  |                              | 2        |
|                                      | 1       | 24        | 21.52                  | 21.37                  | 21.30                  |                              | 2        |
|                                      | 12      | 0         | 20.52                  | 20.32                  | 20.48                  | 0-3                          | 3        |
|                                      | 12      | 6         | 20.52                  | 20.36                  | 20.46                  |                              | 3        |
|                                      | 12      | 13        | 20.42                  | 20.28                  | 20.41                  |                              | 3        |
|                                      | 25      | 0         | 20.43                  | 20.32                  | 20.38                  |                              | 3        |
| 256QAM                               | 1       | 0         | 19.09                  | 18.99                  | 18.80                  | 0-5                          | 5        |
|                                      | 1       | 12        | 19.11                  | 18.99                  | 18.79                  |                              | 5        |
|                                      | 1       | 24        | 19.02                  | 18.88                  | 18.66                  |                              | 5        |
|                                      | 12      | 0         | 19.16                  | 18.87                  | 18.82                  |                              | 5        |
|                                      | 12      | 6         | 19.10                  | 18.89                  | 18.81                  |                              | 5        |
|                                      | 12      | 13        | 19.07                  | 18.82                  | 18.74                  |                              | 5        |
|                                      | 25      | 0         | 19.03                  | 18.83                  | 18.77                  |                              | 5        |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 65 of 305                         |

**Table 9-35**  
**LTE Band 66 (AWS) Measured  $P_{\max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 3 MHz Bandwidth**

| LTE Band 66 (AWS)<br>3 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|--------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                           | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                      |         |           | 131987<br>(1711.5 MHz) | 132322<br>(1745.0 MHz) | 132657<br>(1778.5 MHz) |                              |          |
|                                      |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                 | 1       | 0         | 23.66                  | 23.43                  | 23.34                  | 0                            | 0        |
|                                      | 1       | 7         | 23.59                  | 23.36                  | 23.28                  |                              | 0        |
|                                      | 1       | 14        | 23.55                  | 23.36                  | 23.26                  |                              | 0        |
|                                      | 8       | 0         | 22.51                  | 22.50                  | 22.43                  | 0-1                          | 1        |
|                                      | 8       | 4         | 22.52                  | 22.50                  | 22.42                  |                              | 1        |
|                                      | 8       | 7         | 22.39                  | 22.48                  | 22.43                  |                              | 1        |
|                                      | 15      | 0         | 22.49                  | 22.49                  | 22.38                  |                              | 1        |
| 16QAM                                | 1       | 0         | 22.51                  | 22.58                  | 22.49                  | 0-1                          | 1        |
|                                      | 1       | 7         | 22.39                  | 22.49                  | 22.45                  |                              | 1        |
|                                      | 1       | 14        | 22.40                  | 22.42                  | 22.40                  |                              | 1        |
|                                      | 8       | 0         | 21.63                  | 21.42                  | 21.54                  | 0-2                          | 2        |
|                                      | 8       | 4         | 21.56                  | 21.38                  | 21.51                  |                              | 2        |
|                                      | 8       | 7         | 21.53                  | 21.50                  | 21.46                  |                              | 2        |
|                                      | 15      | 0         | 21.47                  | 21.42                  | 21.39                  |                              | 2        |
| 64QAM                                | 1       | 0         | 21.76                  | 21.53                  | 21.47                  | 0-2                          | 2        |
|                                      | 1       | 7         | 21.69                  | 21.49                  | 21.47                  |                              | 2        |
|                                      | 1       | 14        | 21.60                  | 21.45                  | 21.36                  |                              | 2        |
|                                      | 8       | 0         | 20.64                  | 20.42                  | 20.45                  | 0-3                          | 3        |
|                                      | 8       | 4         | 20.60                  | 20.46                  | 20.43                  |                              | 3        |
|                                      | 8       | 7         | 20.57                  | 20.37                  | 20.35                  |                              | 3        |
|                                      | 15      | 0         | 20.47                  | 20.39                  | 20.38                  |                              | 3        |
| 256QAM                               | 1       | 0         | 18.83                  | 18.98                  | 18.86                  | 0-5                          | 5        |
|                                      | 1       | 7         | 18.77                  | 18.93                  | 18.86                  |                              | 5        |
|                                      | 1       | 14        | 18.71                  | 18.81                  | 18.92                  |                              | 5        |
|                                      | 8       | 0         | 19.14                  | 18.80                  | 18.87                  |                              | 5        |
|                                      | 8       | 4         | 19.11                  | 18.76                  | 18.91                  |                              | 5        |
|                                      | 8       | 7         | 19.08                  | 18.69                  | 18.76                  |                              | 5        |
|                                      | 15      | 0         | 19.06                  | 18.87                  | 18.83                  |                              | 5        |

|                                      |                                                                                                                                                                                                                                                                                                                                                                          |                               |                |                                 |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986U                   | <div><b>PCTEST</b><br/><small>Proud to be part of</small> </div> <div>SAR EVALUATION REPORT</div> <div></div> |                               |                | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01_A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                                                                                                       | DUT Type:<br>Portable Handset | Page 66 of 305 |                                 |

Table 9-36

LTE Band 66 (AWS) Measured  $P_{\max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 1.4 MHz Bandwidth

| LTE Band 66 (AWS)<br>1.4 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|----------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                             | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                        |         |           | 131979<br>(1710.7 MHz) | 132322<br>(1745.0 MHz) | 132665<br>(1779.3 MHz) |                              |          |
|                                        |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                   | 1       | 0         | 23.47                  | 23.40                  | 23.43                  | 0                            | 0        |
|                                        | 1       | 2         | 23.50                  | 23.49                  | 23.41                  |                              | 0        |
|                                        | 1       | 5         | 23.45                  | 23.38                  | 23.42                  |                              | 0        |
|                                        | 3       | 0         | 23.47                  | 23.47                  | 23.35                  |                              | 0        |
|                                        | 3       | 2         | 23.59                  | 23.49                  | 23.35                  |                              | 0        |
|                                        | 3       | 3         | 23.55                  | 23.44                  | 23.31                  |                              | 0        |
|                                        | 6       | 0         | 22.59                  | 22.47                  | 22.33                  | 0-1                          | 1        |
| 16QAM                                  | 1       | 0         | 22.42                  | 22.42                  | 22.38                  | 0-1                          | 1        |
|                                        | 1       | 2         | 22.42                  | 22.49                  | 22.44                  |                              | 1        |
|                                        | 1       | 5         | 22.33                  | 22.44                  | 22.46                  |                              | 1        |
|                                        | 3       | 0         | 22.36                  | 22.44                  | 22.47                  |                              | 1        |
|                                        | 3       | 2         | 22.32                  | 22.49                  | 22.37                  |                              | 1        |
|                                        | 3       | 3         | 22.30                  | 22.36                  | 22.32                  |                              | 1        |
|                                        | 6       | 0         | 21.42                  | 21.41                  | 21.38                  | 0-2                          | 2        |
| 64QAM                                  | 1       | 0         | 21.53                  | 21.47                  | 21.36                  | 0-2                          | 2        |
|                                        | 1       | 2         | 21.63                  | 21.51                  | 21.50                  |                              | 2        |
|                                        | 1       | 5         | 21.57                  | 21.39                  | 21.35                  |                              | 2        |
|                                        | 3       | 0         | 21.51                  | 21.43                  | 21.50                  |                              | 2        |
|                                        | 3       | 2         | 21.55                  | 21.42                  | 21.51                  |                              | 2        |
|                                        | 3       | 3         | 21.46                  | 21.39                  | 21.47                  |                              | 2        |
|                                        | 6       | 0         | 20.49                  | 20.30                  | 20.47                  | 0-3                          | 3        |
| 256QAM                                 | 1       | 0         | 18.98                  | 18.53                  | 18.76                  | 0-5                          | 5        |
|                                        | 1       | 2         | 19.06                  | 18.53                  | 18.76                  |                              | 5        |
|                                        | 1       | 5         | 18.93                  | 18.43                  | 18.71                  |                              | 5        |
|                                        | 3       | 0         | 19.05                  | 18.77                  | 18.77                  |                              | 5        |
|                                        | 3       | 2         | 19.07                  | 18.74                  | 18.81                  |                              | 5        |
|                                        | 3       | 3         | 18.99                  | 18.75                  | 18.74                  |                              | 5        |
|                                        | 6       | 0         | 19.05                  | 18.84                  | 18.62                  |                              | 5        |

|                                             |                                                                                                                                                                                                                                   |                                      |                                        |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the</small>  | <b>SAR EVALUATION REPORT</b>         | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                         | <b>DUT Type:</b><br>Portable Handset | Page 67 of 305                         |

**Table 9-37**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 3 (Hotspot mode) - 20 MHz Bandwidth**

| LTE Band 66 (AWS)<br>20 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|---------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 132072<br>(1720.0 MHz) | 132322<br>(1745.0 MHz) | 132572<br>(1770.0 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                  | 1       | 0         | 19.58                  | 19.29                  | 19.37                  | 0                            | 0        |
|                                       | 1       | 50        | 19.56                  | 19.61                  | 19.43                  |                              | 0        |
|                                       | 1       | 99        | 19.57                  | 19.35                  | 19.32                  |                              | 0        |
|                                       | 50      | 0         | 19.58                  | 19.50                  | 19.60                  | 0-1                          | 0        |
|                                       | 50      | 25        | 19.56                  | 19.66                  | 19.59                  |                              | 0        |
|                                       | 50      | 50        | 19.55                  | 19.55                  | 19.64                  |                              | 0        |
|                                       | 100     | 0         | 19.55                  | 19.56                  | 19.54                  | 0                            |          |
| 16QAM                                 | 1       | 0         | 19.57                  | 19.54                  | 19.90                  | 0-1                          | 0        |
|                                       | 1       | 50        | 19.58                  | 19.83                  | 20.00                  |                              | 0        |
|                                       | 1       | 99        | 19.56                  | 19.56                  | 19.98                  |                              | 0        |
|                                       | 50      | 0         | 19.58                  | 19.47                  | 19.66                  | 0-2                          | 0        |
|                                       | 50      | 25        | 19.55                  | 19.62                  | 19.74                  |                              | 0        |
|                                       | 50      | 50        | 19.56                  | 19.47                  | 19.70                  |                              | 0        |
|                                       | 100     | 0         | 19.57                  | 19.50                  | 19.62                  | 0                            |          |
| 64QAM                                 | 1       | 0         | 19.56                  | 19.46                  | 19.92                  | 0-2                          | 0        |
|                                       | 1       | 50        | 19.58                  | 19.79                  | 19.85                  |                              | 0        |
|                                       | 1       | 99        | 19.58                  | 19.51                  | 19.69                  |                              | 0        |
|                                       | 50      | 0         | 19.59                  | 19.56                  | 19.78                  | 0-3                          | 0        |
|                                       | 50      | 25        | 19.55                  | 19.70                  | 19.73                  |                              | 0        |
|                                       | 50      | 50        | 19.56                  | 19.56                  | 19.64                  |                              | 0        |
|                                       | 100     | 0         | 18.92                  | 19.64                  | 19.65                  | 0                            |          |
| 256QAM                                | 1       | 0         | 19.27                  | 18.64                  | 19.02                  | 0-5                          | 0.5      |
|                                       | 1       | 50        | 18.92                  | 18.96                  | 19.44                  |                              | 0.5      |
|                                       | 1       | 99        | 19.01                  | 18.72                  | 19.12                  |                              | 0.5      |
|                                       | 50      | 0         | 19.14                  | 19.05                  | 19.17                  |                              | 0.5      |
|                                       | 50      | 25        | 19.00                  | 19.23                  | 19.20                  |                              | 0.5      |
|                                       | 50      | 50        | 19.01                  | 19.06                  | 19.21                  |                              | 0.5      |
|                                       | 100     | 0         | 19.02                  | 19.14                  | 19.08                  |                              | 0.5      |

|                                             |                                                                                                                                                                                                                               |                                      |                                        |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>         | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                     | <b>DUT Type:</b><br>Portable Handset | Page 68 of 305                         |

**Table 9-38**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 3 (Hotspot mode) - 15 MHz Bandwidth**

| LTE Band 66 (AWS)<br>15 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|---------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 132047<br>(1717.5 MHz) | 132322<br>(1745.0 MHz) | 132597<br>(1772.5 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                  | 1       | 0         | 19.39                  | 19.32                  | 19.32                  | 0                            | 0        |
|                                       | 1       | 36        | 19.56                  | 19.30                  | 19.35                  |                              | 0        |
|                                       | 1       | 74        | 19.28                  | 19.33                  | 19.02                  |                              | 0        |
|                                       | 36      | 0         | 19.53                  | 19.35                  | 19.25                  | 0-1                          | 0        |
|                                       | 36      | 18        | 19.56                  | 19.33                  | 19.27                  |                              | 0        |
|                                       | 36      | 37        | 19.43                  | 19.38                  | 19.22                  |                              | 0        |
|                                       | 75      | 0         | 19.49                  | 19.33                  | 19.19                  |                              | 0        |
| 16QAM                                 | 1       | 0         | 19.25                  | 19.34                  | 19.48                  | 0-1                          | 0        |
|                                       | 1       | 36        | 19.33                  | 19.32                  | 19.48                  |                              | 0        |
|                                       | 1       | 74        | 19.09                  | 19.36                  | 19.30                  |                              | 0        |
|                                       | 36      | 0         | 19.66                  | 19.33                  | 19.34                  | 0-2                          | 0        |
|                                       | 36      | 18        | 19.61                  | 19.32                  | 19.36                  |                              | 0        |
|                                       | 36      | 37        | 19.49                  | 19.37                  | 19.35                  |                              | 0        |
|                                       | 75      | 0         | 19.49                  | 19.37                  | 19.23                  |                              | 0        |
| 64QAM                                 | 1       | 0         | 19.55                  | 19.34                  | 19.25                  | 0-2                          | 0        |
|                                       | 1       | 36        | 19.73                  | 19.33                  | 19.34                  |                              | 0        |
|                                       | 1       | 74        | 19.44                  | 19.34                  | 19.36                  |                              | 0        |
|                                       | 36      | 0         | 19.55                  | 19.33                  | 19.32                  | 0-3                          | 0        |
|                                       | 36      | 18        | 19.56                  | 19.32                  | 19.34                  |                              | 0        |
|                                       | 36      | 37        | 19.44                  | 19.32                  | 19.33                  |                              | 0        |
|                                       | 75      | 0         | 19.54                  | 19.32                  | 19.36                  |                              | 0        |
| 256QAM                                | 1       | 0         | 19.28                  | 18.95                  | 19.36                  | 0-5                          | 0.5      |
|                                       | 1       | 36        | 19.50                  | 19.19                  | 19.38                  |                              | 0.5      |
|                                       | 1       | 74        | 19.25                  | 18.90                  | 19.32                  |                              | 0.5      |
|                                       | 36      | 0         | 19.37                  | 19.10                  | 19.07                  |                              | 0.5      |
|                                       | 36      | 18        | 19.37                  | 19.14                  | 19.08                  |                              | 0.5      |
|                                       | 36      | 37        | 19.26                  | 19.02                  | 19.00                  |                              | 0.5      |
|                                       | 75      | 0         | 19.29                  | 19.09                  | 19.02                  |                              | 0.5      |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 69 of 305                                                                        |                                        |

**Table 9-39**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 3 (Hotspot mode) - 10 MHz Bandwidth**

| LTE Band 66 (AWS)<br>10 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|---------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 132022<br>(1715.0 MHz) | 132322<br>(1745.0 MHz) | 132622<br>(1775.0 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                  | 1       | 0         | 19.42                  | 19.35                  | 19.33                  | 0                            | 0        |
|                                       | 1       | 25        | 19.58                  | 19.58                  | 19.48                  |                              | 0        |
|                                       | 1       | 49        | 19.55                  | 19.38                  | 19.37                  |                              | 0        |
|                                       | 25      | 0         | 19.53                  | 19.55                  | 19.55                  | 0-1                          | 0        |
|                                       | 25      | 12        | 19.56                  | 19.65                  | 19.50                  |                              | 0        |
|                                       | 25      | 25        | 19.57                  | 19.54                  | 19.62                  |                              | 0        |
|                                       | 50      | 0         | 19.43                  | 19.52                  | 19.64                  |                              | 0        |
| 16QAM                                 | 1       | 0         | 19.47                  | 19.50                  | 19.88                  | 0-1                          | 0        |
|                                       | 1       | 25        | 19.40                  | 19.88                  | 19.82                  |                              | 0        |
|                                       | 1       | 49        | 19.50                  | 19.59                  | 19.95                  |                              | 0        |
|                                       | 25      | 0         | 19.48                  | 19.58                  | 19.65                  | 0-2                          | 0        |
|                                       | 25      | 12        | 19.58                  | 19.72                  | 19.77                  |                              | 0        |
|                                       | 25      | 25        | 19.48                  | 19.55                  | 19.66                  |                              | 0        |
|                                       | 50      | 0         | 19.33                  | 19.52                  | 19.65                  |                              | 0        |
| 64QAM                                 | 1       | 0         | 19.34                  | 19.48                  | 19.80                  | 0-2                          | 0        |
|                                       | 1       | 25        | 19.42                  | 19.66                  | 19.82                  |                              | 0        |
|                                       | 1       | 49        | 19.48                  | 19.62                  | 19.64                  |                              | 0        |
|                                       | 25      | 0         | 19.44                  | 19.64                  | 19.72                  | 0-3                          | 0        |
|                                       | 25      | 12        | 19.42                  | 19.65                  | 19.74                  |                              | 0        |
|                                       | 25      | 25        | 19.58                  | 19.62                  | 19.65                  |                              | 0        |
|                                       | 50      | 0         | 19.00                  | 19.56                  | 19.66                  |                              | 0        |
| 256QAM                                | 1       | 0         | 19.12                  | 18.88                  | 19.00                  | 0-5                          | 0.5      |
|                                       | 1       | 25        | 19.00                  | 18.99                  | 19.22                  |                              | 0.5      |
|                                       | 1       | 49        | 18.99                  | 18.84                  | 19.28                  |                              | 0.5      |
|                                       | 25      | 0         | 18.92                  | 19.00                  | 19.18                  |                              | 0.5      |
|                                       | 25      | 12        | 18.94                  | 19.12                  | 19.22                  |                              | 0.5      |
|                                       | 25      | 25        | 18.91                  | 19.05                  | 19.20                  |                              | 0.5      |
|                                       | 50      | 0         | 19.08                  | 19.12                  | 19.18                  |                              | 0.5      |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 70 of 305                                                                        |                                        |

**Table 9-40**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 3 (Hotspot mode) - 5 MHz Bandwidth**

| LTE Band 66 (AWS)<br>5 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|--------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                           | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                      |         |           | 131997<br>(1712.5 MHz) | 132322<br>(1745.0 MHz) | 132647<br>(1777.5 MHz) |                              |          |
|                                      |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                 | 1       | 0         | 18.82                  | 19.39                  | 19.12                  | 0                            | 0        |
|                                      | 1       | 12        | 18.78                  | 19.38                  | 19.15                  |                              | 0        |
|                                      | 1       | 24        | 18.73                  | 19.38                  | 19.13                  |                              | 0        |
|                                      | 12      | 0         | 19.01                  | 19.38                  | 19.14                  | 0-1                          | 0        |
|                                      | 12      | 6         | 19.03                  | 19.38                  | 19.10                  |                              | 0        |
|                                      | 12      | 13        | 18.91                  | 19.35                  | 19.09                  |                              | 0        |
|                                      | 25      | 0         | 19.04                  | 19.37                  | 19.11                  |                              | 0        |
| 16QAM                                | 1       | 0         | 19.01                  | 19.37                  | 19.10                  | 0-1                          | 0        |
|                                      | 1       | 12        | 18.97                  | 19.37                  | 19.12                  |                              | 0        |
|                                      | 1       | 24        | 18.88                  | 19.37                  | 19.12                  |                              | 0        |
|                                      | 12      | 0         | 19.06                  | 19.36                  | 19.11                  | 0-2                          | 0        |
|                                      | 12      | 6         | 19.06                  | 19.38                  | 19.12                  |                              | 0        |
|                                      | 12      | 13        | 18.95                  | 19.39                  | 19.12                  |                              | 0        |
|                                      | 25      | 0         | 18.96                  | 19.38                  | 19.12                  |                              | 0        |
| 64QAM                                | 1       | 0         | 19.13                  | 19.38                  | 19.12                  | 0-2                          | 0        |
|                                      | 1       | 12        | 19.15                  | 19.40                  | 19.13                  |                              | 0        |
|                                      | 1       | 24        | 19.08                  | 19.38                  | 19.11                  |                              | 0        |
|                                      | 12      | 0         | 18.96                  | 19.39                  | 19.13                  | 0-3                          | 0        |
|                                      | 12      | 6         | 19.00                  | 19.38                  | 19.11                  |                              | 0        |
|                                      | 12      | 13        | 18.89                  | 19.38                  | 19.12                  |                              | 0        |
|                                      | 25      | 0         | 19.01                  | 19.36                  | 19.12                  |                              | 0        |
| 256QAM                               | 1       | 0         | 19.03                  | 19.03                  | 18.84                  | 0-5                          | 0.5      |
|                                      | 1       | 12        | 19.05                  | 19.06                  | 18.86                  |                              | 0.5      |
|                                      | 1       | 24        | 18.90                  | 18.90                  | 18.80                  |                              | 0.5      |
|                                      | 12      | 0         | 19.04                  | 18.81                  | 18.87                  |                              | 0.5      |
|                                      | 12      | 6         | 19.05                  | 18.87                  | 18.88                  |                              | 0.5      |
|                                      | 12      | 13        | 18.97                  | 18.79                  | 18.78                  |                              | 0.5      |
|                                      | 25      | 0         | 19.01                  | 18.83                  | 18.77                  |                              | 0.5      |

|                                             |                                                                                                                                                                                                                             |                                      |                                                                                       |                                        |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                   | <b>DUT Type:</b><br>Portable Handset | Page 71 of 305                                                                        |                                        |

**Table 9-41**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 3 (Hotspot mode) - 3 MHz Bandwidth**

| LTE Band 66 (AWS)<br>3 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|--------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                           | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                      |         |           | 131987<br>(1711.5 MHz) | 132322<br>(1745.0 MHz) | 132657<br>(1778.5 MHz) |                              |          |
|                                      |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                 | 1       | 0         | 19.61                  | 19.33                  | 19.44                  | 0                            | 0        |
|                                      | 1       | 7         | 19.50                  | 19.26                  | 19.35                  |                              | 0        |
|                                      | 1       | 14        | 19.49                  | 19.22                  | 19.26                  |                              | 0        |
|                                      | 8       | 0         | 19.68                  | 19.48                  | 19.50                  | 0-1                          | 0        |
|                                      | 8       | 4         | 19.63                  | 19.49                  | 19.57                  |                              | 0        |
|                                      | 8       | 7         | 19.60                  | 19.37                  | 19.49                  |                              | 0        |
|                                      | 15      | 0         | 19.63                  | 19.43                  | 19.51                  |                              | 0        |
| 16QAM                                | 1       | 0         | 19.67                  | 19.52                  | 19.68                  | 0-1                          | 0        |
|                                      | 1       | 7         | 19.57                  | 19.38                  | 19.58                  |                              | 0        |
|                                      | 1       | 14        | 19.55                  | 19.39                  | 19.60                  |                              | 0        |
|                                      | 8       | 0         | 19.37                  | 19.31                  | 19.16                  | 0-2                          | 0        |
|                                      | 8       | 4         | 19.32                  | 19.29                  | 19.19                  |                              | 0        |
|                                      | 8       | 7         | 19.29                  | 19.18                  | 19.14                  |                              | 0        |
|                                      | 15      | 0         | 19.17                  | 19.15                  | 19.09                  |                              | 0        |
| 64QAM                                | 1       | 0         | 19.56                  | 19.53                  | 19.42                  | 0-2                          | 0        |
|                                      | 1       | 7         | 19.57                  | 19.45                  | 19.36                  |                              | 0        |
|                                      | 1       | 14        | 19.46                  | 19.40                  | 19.29                  |                              | 0        |
|                                      | 8       | 0         | 19.51                  | 19.43                  | 19.35                  | 0-3                          | 0        |
|                                      | 8       | 4         | 19.47                  | 19.42                  | 19.35                  |                              | 0        |
|                                      | 8       | 7         | 19.44                  | 19.35                  | 19.34                  |                              | 0        |
|                                      | 15      | 0         | 19.61                  | 19.28                  | 19.33                  |                              | 0        |
| 256QAM                               | 1       | 0         | 19.35                  | 18.79                  | 19.29                  | 0-5                          | 0.5      |
|                                      | 1       | 7         | 19.25                  | 18.68                  | 19.23                  |                              | 0.5      |
|                                      | 1       | 14        | 19.19                  | 18.70                  | 19.12                  |                              | 0.5      |
|                                      | 8       | 0         | 19.11                  | 19.07                  | 19.15                  |                              | 0.5      |
|                                      | 8       | 4         | 19.14                  | 19.05                  | 19.14                  |                              | 0.5      |
|                                      | 8       | 7         | 19.02                  | 18.99                  | 19.05                  |                              | 0.5      |
|                                      | 15      | 0         | 19.21                  | 19.00                  | 18.99                  |                              | 0.5      |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 72 of 305                                                                        |                                        |



**Table 9-42**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 3 (Hotspot mode) - 1.4 MHz Bandwidth**

| LTE Band 66 (AWS)<br>1.4 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|----------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                             | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                        |         |           | 131979<br>(1710.7 MHz) | 132322<br>(1745.0 MHz) | 132665<br>(1779.3 MHz) |                              |          |
|                                        |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                   | 1       | 0         | 19.51                  | 19.25                  | 19.51                  | 0                            | 0        |
|                                        | 1       | 2         | 19.53                  | 19.31                  | 19.54                  |                              | 0        |
|                                        | 1       | 5         | 19.44                  | 19.22                  | 19.45                  |                              | 0        |
|                                        | 3       | 0         | 19.55                  | 19.34                  | 19.41                  |                              | 0        |
|                                        | 3       | 2         | 19.53                  | 19.33                  | 19.37                  |                              | 0        |
|                                        | 3       | 3         | 19.49                  | 19.33                  | 19.35                  |                              | 0        |
|                                        | 6       | 0         | 19.53                  | 19.39                  | 19.40                  | 0-1                          | 0        |
| 16QAM                                  | 1       | 0         | 19.59                  | 19.40                  | 19.19                  | 0-1                          | 0        |
|                                        | 1       | 2         | 19.63                  | 19.40                  | 19.26                  |                              | 0        |
|                                        | 1       | 5         | 19.54                  | 19.30                  | 19.15                  |                              | 0        |
|                                        | 3       | 0         | 19.61                  | 19.32                  | 19.42                  |                              | 0        |
|                                        | 3       | 2         | 19.61                  | 19.34                  | 19.48                  |                              | 0        |
|                                        | 3       | 3         | 19.54                  | 19.25                  | 19.39                  |                              | 0        |
|                                        | 6       | 0         | 19.62                  | 19.44                  | 19.41                  | 0-2                          | 0        |
| 64QAM                                  | 1       | 0         | 19.43                  | 19.29                  | 19.40                  | 0-2                          | 0        |
|                                        | 1       | 2         | 19.44                  | 19.31                  | 19.48                  |                              | 0        |
|                                        | 1       | 5         | 19.36                  | 19.27                  | 19.32                  |                              | 0        |
|                                        | 3       | 0         | 19.55                  | 19.23                  | 19.22                  |                              | 0        |
|                                        | 3       | 2         | 19.59                  | 19.28                  | 19.24                  |                              | 0        |
|                                        | 3       | 3         | 19.54                  | 19.19                  | 19.20                  |                              | 0        |
|                                        | 6       | 0         | 19.48                  | 19.18                  | 19.21                  | 0-3                          | 0        |
| 256QAM                                 | 1       | 0         | 19.16                  | 18.66                  | 18.94                  | 0-5                          | 0.5      |
|                                        | 1       | 2         | 19.19                  | 18.68                  | 19.07                  |                              | 0.5      |
|                                        | 1       | 5         | 19.11                  | 18.58                  | 18.91                  |                              | 0.5      |
|                                        | 3       | 0         | 19.18                  | 18.89                  | 19.08                  |                              | 0.5      |
|                                        | 3       | 2         | 19.21                  | 18.94                  | 19.06                  |                              | 0.5      |
|                                        | 3       | 3         | 19.12                  | 18.87                  | 18.97                  |                              | 0.5      |
|                                        | 6       | 0         | 19.04                  | 18.98                  | 18.99                  |                              | 0.5      |

|                                      |                                                                                                                                                                                                                                                                                              |                               |                                 |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   | <div><b>PCTEST</b><br/><small>Proud to be part of SAMSUNG</small></div> <div>SAR EVALUATION REPORT</div> <div></div> |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 73 of 305                  |

**Table 9-43**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 20 MHz Bandwidth**

| LTE Band 66 (AWS)<br>20 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|---------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 132072<br>(1720.0 MHz) | 132322<br>(1745.0 MHz) | 132572<br>(1770.0 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                  | 1       | 0         | 20.06                  | 20.08                  | 20.26                  | 0                            | 0        |
|                                       | 1       | 50        | 20.49                  | 20.05                  | 20.22                  |                              | 0        |
|                                       | 1       | 99        | 20.07                  | 19.90                  | 20.12                  |                              | 0        |
|                                       | 50      | 0         | 20.46                  | 20.27                  | 20.25                  | 0-1                          | 0        |
|                                       | 50      | 25        | 20.49                  | 20.38                  | 20.33                  |                              | 0        |
|                                       | 50      | 50        | 20.34                  | 20.26                  | 20.30                  |                              | 0        |
|                                       | 100     | 0         | 20.43                  | 20.35                  | 20.17                  |                              | 0        |
| 16QAM                                 | 1       | 0         | 20.30                  | 20.15                  | 20.32                  | 0-1                          | 0        |
|                                       | 1       | 50        | 20.44                  | 20.19                  | 20.31                  |                              | 0        |
|                                       | 1       | 99        | 20.14                  | 20.22                  | 20.33                  |                              | 0        |
|                                       | 50      | 0         | 20.46                  | 20.23                  | 20.28                  | 0-2                          | 0        |
|                                       | 50      | 25        | 20.50                  | 20.41                  | 20.34                  |                              | 0        |
|                                       | 50      | 50        | 20.41                  | 20.26                  | 20.27                  |                              | 0        |
|                                       | 100     | 0         | 20.49                  | 20.33                  | 20.19                  |                              | 0        |
| 64QAM                                 | 1       | 0         | 20.33                  | 20.35                  | 20.47                  | 0-2                          | 0        |
|                                       | 1       | 50        | 20.43                  | 20.38                  | 20.49                  |                              | 0        |
|                                       | 1       | 99        | 20.33                  | 20.26                  | 20.40                  |                              | 0        |
|                                       | 50      | 0         | 20.01                  | 19.84                  | 19.77                  | 0-3                          | 0        |
|                                       | 50      | 25        | 20.07                  | 19.94                  | 19.82                  |                              | 0        |
|                                       | 50      | 50        | 19.90                  | 19.80                  | 19.73                  |                              | 0        |
|                                       | 100     | 0         | 19.95                  | 19.86                  | 19.65                  |                              | 0        |
| 256QAM                                | 1       | 0         | 18.54                  | 18.42                  | 18.56                  | 0-5                          | 1        |
|                                       | 1       | 50        | 18.75                  | 18.73                  | 18.70                  |                              | 1        |
|                                       | 1       | 99        | 18.56                  | 18.52                  | 18.66                  |                              | 1        |
|                                       | 50      | 0         | 18.76                  | 18.42                  | 18.56                  |                              | 1        |
|                                       | 50      | 25        | 18.77                  | 18.67                  | 18.55                  |                              | 1        |
|                                       | 50      | 50        | 18.71                  | 18.59                  | 18.60                  |                              | 1        |
|                                       | 100     | 0         | 18.72                  | 18.61                  | 18.66                  |                              | 1        |

|                                             |                                                                                                                                                     |                                      |                                                                                       |                                        |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the Samsung</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                           | <b>DUT Type:</b><br>Portable Handset | Page 74 of 305                                                                        |                                        |

**Table 9-44**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 15 MHz Bandwidth**

| LTE Band 66 (AWS)<br>15 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|---------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 132047<br>(1717.5 MHz) | 132322<br>(1745.0 MHz) | 132597<br>(1772.5 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                  | 1       | 0         | 19.87                  | 19.86                  | 19.81                  | 0                            | 0        |
|                                       | 1       | 36        | 20.01                  | 20.02                  | 19.86                  |                              | 0        |
|                                       | 1       | 74        | 19.73                  | 19.73                  | 19.71                  |                              | 0        |
|                                       | 36      | 0         | 20.16                  | 19.90                  | 19.94                  | 0-1                          | 0        |
|                                       | 36      | 18        | 20.14                  | 20.01                  | 19.98                  |                              | 0        |
|                                       | 36      | 37        | 20.06                  | 19.91                  | 19.94                  |                              | 0        |
|                                       | 75      | 0         | 20.08                  | 19.93                  | 19.89                  |                              | 0        |
| 16QAM                                 | 1       | 0         | 19.98                  | 19.70                  | 20.19                  | 0-1                          | 0        |
|                                       | 1       | 36        | 20.18                  | 19.85                  | 20.16                  |                              | 0        |
|                                       | 1       | 74        | 19.92                  | 19.60                  | 20.06                  |                              | 0        |
|                                       | 36      | 0         | 20.15                  | 19.99                  | 20.05                  | 0-2                          | 0        |
|                                       | 36      | 18        | 20.19                  | 20.12                  | 20.10                  |                              | 0        |
|                                       | 36      | 37        | 20.08                  | 19.99                  | 20.09                  |                              | 0        |
|                                       | 75      | 0         | 20.14                  | 19.92                  | 19.96                  |                              | 0        |
| 64QAM                                 | 1       | 0         | 19.98                  | 20.01                  | 19.97                  | 0-2                          | 0        |
|                                       | 1       | 36        | 20.19                  | 20.20                  | 20.05                  |                              | 0        |
|                                       | 1       | 74        | 19.92                  | 19.96                  | 19.91                  |                              | 0        |
|                                       | 36      | 0         | 20.16                  | 19.86                  | 19.95                  | 0-3                          | 0        |
|                                       | 36      | 18        | 20.17                  | 19.92                  | 19.98                  |                              | 0        |
|                                       | 36      | 37        | 20.05                  | 19.84                  | 19.94                  |                              | 0        |
|                                       | 75      | 0         | 20.10                  | 19.89                  | 19.79                  |                              | 0        |
| 256QAM                                | 1       | 0         | 18.32                  | 18.34                  | 18.36                  | 0-5                          | 1        |
|                                       | 1       | 36        | 18.82                  | 18.77                  | 18.67                  |                              | 1        |
|                                       | 1       | 74        | 18.76                  | 18.48                  | 18.70                  |                              | 1        |
|                                       | 36      | 0         | 18.67                  | 18.63                  | 18.63                  |                              | 1        |
|                                       | 36      | 18        | 18.78                  | 18.71                  | 18.62                  |                              | 1        |
|                                       | 36      | 37        | 18.66                  | 18.61                  | 18.58                  |                              | 1        |
|                                       | 75      | 0         | 18.65                  | 18.71                  | 18.57                  |                              | 1        |

|                                      |                                                                                                                                                                                                                             |                               |                                                                                       |                                 |
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| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of</small>  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                          | DUT Type:<br>Portable Handset |                                                                                       | Page 75 of 305                  |

**Table 9-45**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 10 MHz Bandwidth**

| LTE Band 66 (AWS)<br>10 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|---------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 132022<br>(1715.0 MHz) | 132322<br>(1745.0 MHz) | 132622<br>(1775.0 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                  | 1       | 0         | 20.05                  | 20.03                  | 20.05                  | 0                            | 0        |
|                                       | 1       | 25        | 20.27                  | 20.22                  | 20.18                  |                              | 0        |
|                                       | 1       | 49        | 20.12                  | 20.00                  | 20.06                  |                              | 0        |
|                                       | 25      | 0         | 20.45                  | 20.25                  | 20.27                  | 0-1                          | 0        |
|                                       | 25      | 12        | 20.50                  | 20.41                  | 20.31                  |                              | 0        |
|                                       | 25      | 25        | 20.47                  | 20.30                  | 20.26                  |                              | 0        |
|                                       | 50      | 0         | 20.47                  | 20.35                  | 20.24                  |                              | 0        |
| 16QAM                                 | 1       | 0         | 20.13                  | 20.11                  | 20.39                  | 0-1                          | 0        |
|                                       | 1       | 25        | 20.13                  | 20.16                  | 20.41                  |                              | 0        |
|                                       | 1       | 49        | 20.00                  | 20.07                  | 20.34                  |                              | 0        |
|                                       | 25      | 0         | 20.19                  | 20.05                  | 19.96                  | 0-2                          | 0        |
|                                       | 25      | 12        | 20.21                  | 20.12                  | 19.94                  |                              | 0        |
|                                       | 25      | 25        | 20.08                  | 20.05                  | 19.89                  |                              | 0        |
|                                       | 50      | 0         | 20.13                  | 19.95                  | 20.07                  |                              | 0        |
| 64QAM                                 | 1       | 0         | 20.28                  | 19.94                  | 20.24                  | 0-2                          | 0        |
|                                       | 1       | 25        | 20.32                  | 20.03                  | 20.20                  |                              | 0        |
|                                       | 1       | 49        | 20.23                  | 19.85                  | 20.11                  |                              | 0        |
|                                       | 25      | 0         | 20.08                  | 19.96                  | 19.96                  | 0-3                          | 0        |
|                                       | 25      | 12        | 20.11                  | 20.03                  | 19.93                  |                              | 0        |
|                                       | 25      | 25        | 19.97                  | 19.91                  | 19.87                  |                              | 0        |
|                                       | 50      | 0         | 20.02                  | 19.92                  | 19.91                  |                              | 0        |
| 256QAM                                | 1       | 0         | 18.84                  | 18.56                  | 18.77                  | 0-5                          | 1        |
|                                       | 1       | 25        | 18.91                  | 18.81                  | 18.87                  |                              | 1        |
|                                       | 1       | 49        | 18.73                  | 18.55                  | 18.81                  |                              | 1        |
|                                       | 25      | 0         | 18.82                  | 18.49                  | 18.84                  |                              | 1        |
|                                       | 25      | 12        | 18.87                  | 18.41                  | 18.78                  |                              | 1        |
|                                       | 25      | 25        | 18.76                  | 18.57                  | 18.77                  |                              | 1        |
|                                       | 50      | 0         | 18.72                  | 18.52                  | 18.94                  |                              | 1        |

|                                      |                                                                                                                                                                                                                                                  |                               |                                        |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of the</small>  <b>SAMSUNG</b> | <b>SAR EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                               | DUT Type:<br>Portable Handset | Page 76 of 305                         |

**Table 9-46**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 5 MHz Bandwidth**

| LTE Band 66 (AWS)<br>5 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|--------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                           | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                      |         |           | 131997<br>(1712.5 MHz) | 132322<br>(1745.0 MHz) | 132647<br>(1777.5 MHz) |                              |          |
|                                      |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                 | 1       | 0         | 19.94                  | 19.92                  | 19.98                  | 0                            | 0        |
|                                      | 1       | 12        | 19.91                  | 19.95                  | 19.91                  |                              | 0        |
|                                      | 1       | 24        | 19.85                  | 19.87                  | 19.87                  |                              | 0        |
|                                      | 12      | 0         | 20.21                  | 19.99                  | 20.03                  | 0-1                          | 0        |
|                                      | 12      | 6         | 20.16                  | 20.02                  | 20.08                  |                              | 0        |
|                                      | 12      | 13        | 20.10                  | 19.96                  | 19.94                  |                              | 0        |
|                                      | 25      | 0         | 20.19                  | 19.99                  | 19.98                  |                              | 0        |
| 16QAM                                | 1       | 0         | 20.13                  | 20.11                  | 20.39                  | 0-1                          | 0        |
|                                      | 1       | 12        | 20.13                  | 20.16                  | 20.41                  |                              | 0        |
|                                      | 1       | 24        | 20.00                  | 20.07                  | 20.34                  |                              | 0        |
|                                      | 12      | 0         | 20.19                  | 20.05                  | 19.96                  | 0-2                          | 0        |
|                                      | 12      | 6         | 20.21                  | 20.12                  | 19.94                  |                              | 0        |
|                                      | 12      | 13        | 20.08                  | 20.05                  | 19.89                  |                              | 0        |
|                                      | 25      | 0         | 20.13                  | 19.95                  | 20.07                  |                              | 0        |
| 64QAM                                | 1       | 0         | 20.28                  | 19.94                  | 20.24                  | 0-2                          | 0        |
|                                      | 1       | 12        | 20.32                  | 20.03                  | 20.20                  |                              | 0        |
|                                      | 1       | 24        | 20.23                  | 19.85                  | 20.11                  |                              | 0        |
|                                      | 12      | 0         | 20.08                  | 19.96                  | 19.96                  | 0-3                          | 0        |
|                                      | 12      | 6         | 20.11                  | 20.03                  | 19.93                  |                              | 0        |
|                                      | 12      | 13        | 19.97                  | 19.91                  | 19.87                  |                              | 0        |
|                                      | 25      | 0         | 20.02                  | 19.92                  | 19.91                  |                              | 0        |
| 256QAM                               | 1       | 0         | 18.94                  | 18.53                  | 18.61                  | 0-5                          | 1        |
|                                      | 1       | 12        | 18.93                  | 18.57                  | 18.59                  |                              | 1        |
|                                      | 1       | 24        | 18.85                  | 18.46                  | 18.51                  |                              | 1        |
|                                      | 12      | 0         | 18.87                  | 18.55                  | 18.65                  |                              | 1        |
|                                      | 12      | 6         | 18.89                  | 18.62                  | 18.64                  |                              | 1        |
|                                      | 12      | 13        | 18.77                  | 18.51                  | 18.58                  |                              | 1        |
|                                      | 25      | 0         | 18.78                  | 18.59                  | 18.54                  |                              | 1        |

|                                      |                                                                                                                                                                                                                                                                                                                                               |                               |                |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------|
| FCC ID: A3LSMN986U                   | <div><div>PCTEST®<br/><small>Proud to be part of Samsung</small></div></div> <div>SAR EVALUATION REPORT</div> <div></div> <div>Approved by:<br/>Quality Manager</div> |                               |                |
| Document S/N:<br>1M2004170065-01_A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                                                                            | DUT Type:<br>Portable Handset | Page 77 of 305 |

**Table 9-47**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 3 MHz Bandwidth**

| LTE Band 66 (AWS)<br>3 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|--------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                           | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                      |         |           | 131987<br>(1711.5 MHz) | 132322<br>(1745.0 MHz) | 132657<br>(1778.5 MHz) |                              |          |
|                                      |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                 | 1       | 0         | 20.08                  | 19.91                  | 19.88                  | 0                            | 0        |
|                                      | 1       | 7         | 20.00                  | 19.82                  | 19.82                  |                              | 0        |
|                                      | 1       | 14        | 19.92                  | 19.82                  | 19.76                  |                              | 0        |
|                                      | 8       | 0         | 20.18                  | 20.01                  | 19.99                  | 0-1                          | 0        |
|                                      | 8       | 4         | 20.18                  | 19.98                  | 19.98                  |                              | 0        |
|                                      | 8       | 7         | 20.12                  | 19.92                  | 19.96                  |                              | 0        |
|                                      | 15      | 0         | 20.14                  | 19.98                  | 20.00                  |                              | 0        |
| 16QAM                                | 1       | 0         | 20.30                  | 20.00                  | 20.02                  | 0-1                          | 0        |
|                                      | 1       | 7         | 20.24                  | 19.93                  | 19.87                  |                              | 0        |
|                                      | 1       | 14        | 20.18                  | 19.88                  | 19.90                  |                              | 0        |
|                                      | 8       | 0         | 20.33                  | 20.10                  | 20.08                  | 0-2                          | 0        |
|                                      | 8       | 4         | 20.36                  | 20.12                  | 20.10                  |                              | 0        |
|                                      | 8       | 7         | 20.26                  | 20.11                  | 20.07                  |                              | 0        |
|                                      | 15      | 0         | 20.23                  | 20.00                  | 20.03                  |                              | 0        |
| 64QAM                                | 1       | 0         | 20.21                  | 20.04                  | 20.24                  | 0-2                          | 0        |
|                                      | 1       | 7         | 20.24                  | 20.00                  | 20.19                  |                              | 0        |
|                                      | 1       | 14        | 20.16                  | 19.97                  | 20.08                  |                              | 0        |
|                                      | 8       | 0         | 20.08                  | 19.84                  | 20.01                  | 0-3                          | 0        |
|                                      | 8       | 4         | 20.13                  | 19.84                  | 20.04                  |                              | 0        |
|                                      | 8       | 7         | 20.01                  | 19.76                  | 19.98                  |                              | 0        |
|                                      | 15      | 0         | 20.07                  | 19.97                  | 19.87                  |                              | 0        |
| 256QAM                               | 1       | 0         | 18.56                  | 18.70                  | 19.11                  | 0-5                          | 1        |
|                                      | 1       | 7         | 18.60                  | 18.65                  | 19.04                  |                              | 1        |
|                                      | 1       | 14        | 18.51                  | 18.56                  | 18.89                  |                              | 1        |
|                                      | 8       | 0         | 18.74                  | 18.51                  | 18.67                  |                              | 1        |
|                                      | 8       | 4         | 18.68                  | 18.49                  | 18.66                  |                              | 1        |
|                                      | 8       | 7         | 18.61                  | 18.40                  | 18.57                  |                              | 1        |
|                                      | 15      | 0         | 18.69                  | 18.58                  | 18.50                  |                              | 1        |

|                                      |                                                                                                                                                                                                                                                                                                                                                                          |                               |                                 |
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| FCC ID: A3LSMN986U                   | <div><b>PCTEST</b><br/><small>Proud to be part of</small> </div> <div>SAR EVALUATION REPORT</div> <div></div> |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                                                                                                       | DUT Type:<br>Portable Handset | Page 78 of 305                  |

**Table 9-48**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) – 1.4 MHz Bandwidth**

| LTE Band 66 (AWS)<br>1.4 MHz Bandwidth |         |           |                        |                        |                        |                              |          |
|----------------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------|----------|
| Modulation                             | RB Size | RB Offset | Low Channel            | Mid Channel            | High Channel           | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                        |         |           | 131979<br>(1710.7 MHz) | 132322<br>(1745.0 MHz) | 132665<br>(1779.3 MHz) |                              |          |
|                                        |         |           | Conducted Power [dBm]  |                        |                        |                              |          |
| QPSK                                   | 1       | 0         | 19.94                  | 19.94                  | 19.80                  | 0                            | 0        |
|                                        | 1       | 2         | 19.99                  | 19.99                  | 19.82                  |                              | 0        |
|                                        | 1       | 5         | 19.90                  | 19.90                  | 19.72                  |                              | 0        |
|                                        | 3       | 0         | 19.99                  | 19.87                  | 19.81                  |                              | 0        |
|                                        | 3       | 2         | 20.04                  | 19.85                  | 19.83                  |                              | 0        |
|                                        | 3       | 3         | 19.99                  | 19.83                  | 19.81                  |                              | 0        |
|                                        | 6       | 0         | 20.06                  | 19.91                  | 19.86                  | 0-1                          | 0        |
| 16QAM                                  | 1       | 0         | 20.07                  | 19.69                  | 19.88                  | 0-1                          | 0        |
|                                        | 1       | 2         | 20.07                  | 19.72                  | 19.94                  |                              | 0        |
|                                        | 1       | 5         | 20.02                  | 19.64                  | 19.84                  |                              | 0        |
|                                        | 3       | 0         | 19.96                  | 19.88                  | 19.88                  |                              | 0        |
|                                        | 3       | 2         | 20.02                  | 19.91                  | 19.91                  |                              | 0        |
|                                        | 3       | 3         | 19.96                  | 19.90                  | 19.84                  |                              | 0        |
|                                        | 6       | 0         | 20.12                  | 19.82                  | 19.95                  | 0-2                          | 0        |
| 64QAM                                  | 1       | 0         | 20.22                  | 20.19                  | 20.00                  | 0-2                          | 0        |
|                                        | 1       | 2         | 20.29                  | 20.27                  | 20.04                  |                              | 0        |
|                                        | 1       | 5         | 20.19                  | 20.10                  | 19.92                  |                              | 0        |
|                                        | 3       | 0         | 20.17                  | 19.95                  | 20.15                  |                              | 0        |
|                                        | 3       | 2         | 20.22                  | 20.01                  | 20.18                  |                              | 0        |
|                                        | 3       | 3         | 20.09                  | 19.92                  | 20.12                  |                              | 0        |
|                                        | 6       | 0         | 20.00                  | 19.86                  | 19.98                  | 0-3                          | 0        |
| 256QAM                                 | 1       | 0         | 18.71                  | 18.75                  | 18.64                  | 0-5                          | 1        |
|                                        | 1       | 2         | 18.72                  | 18.74                  | 18.73                  |                              | 1        |
|                                        | 1       | 5         | 18.60                  | 18.73                  | 18.58                  |                              | 1        |
|                                        | 3       | 0         | 18.75                  | 18.77                  | 18.73                  |                              | 1        |
|                                        | 3       | 2         | 18.76                  | 18.84                  | 18.72                  |                              | 1        |
|                                        | 3       | 3         | 18.71                  | 18.76                  | 18.65                  |                              | 1        |
|                                        | 6       | 0         | 18.79                  | 18.67                  | 18.67                  |                              | 1        |

|                                      |                                                                                                                                                                                                                                                                                                                                                                          |                               |                                 |
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| FCC ID: A3LSMN986U                   | <div><b>PCTEST</b><br/><small>Proud to be part of</small> </div> <div>SAR EVALUATION REPORT</div> <div></div> |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                                                                                                       | DUT Type:<br>Portable Handset | Page 79 of 305                  |

## 9.4.8

## LTE Band 25 (PCS)

Table 9-49

LTE Band 25 (PCS) Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 20 MHz Bandwidth

| LTE Band 25 (PCS)<br>20 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|---------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 26140<br>(1860.0 MHz) | 26365<br>(1882.5 MHz) | 26590<br>(1905.0 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                  | 1       | 0         | 23.66                 | 23.66                 | 23.57                 | 0                            | 0        |
|                                       | 1       | 50        | 23.75                 | 23.67                 | 23.64                 |                              | 0        |
|                                       | 1       | 99        | 23.58                 | 23.61                 | 23.66                 |                              | 0        |
|                                       | 50      | 0         | 22.82                 | 22.61                 | 22.72                 | 0-1                          | 1        |
|                                       | 50      | 25        | 22.81                 | 22.61                 | 22.70                 |                              | 1        |
|                                       | 50      | 50        | 22.67                 | 22.65                 | 22.68                 |                              | 1        |
|                                       | 100     | 0         | 22.63                 | 22.67                 | 22.68                 |                              | 1        |
| 16QAM                                 | 1       | 0         | 22.93                 | 23.27                 | 23.02                 | 0-1                          | 1        |
|                                       | 1       | 50        | 22.85                 | 22.62                 | 23.05                 |                              | 1        |
|                                       | 1       | 99        | 22.77                 | 22.99                 | 22.98                 |                              | 1        |
|                                       | 50      | 0         | 21.80                 | 21.64                 | 21.69                 | 0-2                          | 2        |
|                                       | 50      | 25        | 21.83                 | 21.61                 | 21.68                 |                              | 2        |
|                                       | 50      | 50        | 21.62                 | 21.52                 | 21.72                 |                              | 2        |
|                                       | 100     | 0         | 21.59                 | 21.59                 | 21.64                 |                              | 2        |
| 64QAM                                 | 1       | 0         | 21.96                 | 21.77                 | 21.84                 | 0-2                          | 2        |
|                                       | 1       | 50        | 21.85                 | 21.82                 | 21.93                 |                              | 2        |
|                                       | 1       | 99        | 21.79                 | 21.61                 | 22.05                 |                              | 2        |
|                                       | 50      | 0         | 20.75                 | 20.53                 | 20.71                 | 0-3                          | 3        |
|                                       | 50      | 25        | 20.78                 | 20.64                 | 20.75                 |                              | 3        |
|                                       | 50      | 50        | 20.66                 | 20.52                 | 20.84                 |                              | 3        |
|                                       | 100     | 0         | 20.70                 | 20.54                 | 20.61                 |                              | 3        |
| 256QAM                                | 1       | 0         | 18.52                 | 18.52                 | 18.57                 | 0-5                          | 5        |
|                                       | 1       | 50        | 18.84                 | 18.60                 | 18.87                 |                              | 5        |
|                                       | 1       | 99        | 18.63                 | 18.88                 | 18.67                 |                              | 5        |
|                                       | 50      | 0         | 18.60                 | 18.50                 | 18.61                 |                              | 5        |
|                                       | 50      | 25        | 18.79                 | 18.63                 | 18.74                 |                              | 5        |
|                                       | 50      | 50        | 18.67                 | 18.54                 | 18.78                 |                              | 5        |
|                                       | 100     | 0         | 18.60                 | 18.55                 | 18.63                 |                              | 5        |

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
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| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 80 of 305                         |



**Table 9-50**  
**LTE Band 25 (PCS) Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 15 MHz Bandwidth**

| LTE Band 25 (PCS)<br>15 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|---------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 26115<br>(1857.5 MHz) | 26365<br>(1882.5 MHz) | 26615<br>(1907.5 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                  | 1       | 0         | 23.43                 | 23.40                 | 23.41                 | 0                            | 0        |
|                                       | 1       | 36        | 23.58                 | 23.43                 | 23.39                 |                              | 0        |
|                                       | 1       | 74        | 23.43                 | 23.35                 | 23.37                 |                              | 0        |
|                                       | 36      | 0         | 22.62                 | 22.33                 | 22.39                 | 0-1                          | 1        |
|                                       | 36      | 18        | 22.63                 | 22.42                 | 22.58                 |                              | 1        |
|                                       | 36      | 37        | 22.59                 | 22.46                 | 22.56                 |                              | 1        |
|                                       | 75      | 0         | 22.56                 | 22.45                 | 22.41                 |                              | 1        |
| 16QAM                                 | 1       | 0         | 22.64                 | 22.70                 | 22.83                 | 0-1                          | 1        |
|                                       | 1       | 36        | 22.86                 | 22.68                 | 22.71                 |                              | 1        |
|                                       | 1       | 74        | 22.88                 | 22.69                 | 22.68                 |                              | 1        |
|                                       | 36      | 0         | 21.60                 | 21.36                 | 21.39                 | 0-2                          | 2        |
|                                       | 36      | 18        | 21.64                 | 21.43                 | 21.53                 |                              | 2        |
|                                       | 36      | 37        | 21.61                 | 21.48                 | 21.55                 |                              | 2        |
|                                       | 75      | 0         | 21.59                 | 21.40                 | 21.39                 |                              | 2        |
| 64QAM                                 | 1       | 0         | 21.66                 | 21.53                 | 21.64                 | 0-2                          | 2        |
|                                       | 1       | 36        | 21.86                 | 21.68                 | 21.67                 |                              | 2        |
|                                       | 1       | 74        | 21.63                 | 21.67                 | 21.64                 |                              | 2        |
|                                       | 36      | 0         | 20.65                 | 20.38                 | 20.45                 | 0-3                          | 3        |
|                                       | 36      | 18        | 20.70                 | 20.49                 | 20.62                 |                              | 3        |
|                                       | 36      | 37        | 20.62                 | 20.54                 | 20.60                 |                              | 3        |
|                                       | 75      | 0         | 20.60                 | 20.45                 | 20.44                 |                              | 3        |
| 256QAM                                | 1       | 0         | 18.63                 | 18.34                 | 18.38                 | 0-5                          | 5        |
|                                       | 1       | 36        | 18.81                 | 18.58                 | 18.56                 |                              | 5        |
|                                       | 1       | 74        | 18.58                 | 18.52                 | 18.44                 |                              | 5        |
|                                       | 36      | 0         | 18.66                 | 18.38                 | 18.36                 |                              | 5        |
|                                       | 36      | 18        | 18.67                 | 18.48                 | 18.54                 |                              | 5        |
|                                       | 36      | 37        | 18.59                 | 18.53                 | 18.54                 |                              | 5        |
|                                       | 75      | 0         | 18.60                 | 18.46                 | 18.49                 |                              | 5        |

|                                      |                                                                                                                                                                                                                               |                               |                                        |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                            | DUT Type:<br>Portable Handset | Page 81 of 305                         |

**Table 9-51**  
**LTE Band 25 (PCS) Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 10 MHz Bandwidth**

| LTE Band 25 (PCS)<br>10 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|---------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 26090<br>(1855.0 MHz) | 26365<br>(1882.5 MHz) | 26640<br>(1910.0 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                  | 1       | 0         | 23.35                 | 23.35                 | 23.38                 | 0                            | 0        |
|                                       | 1       | 25        | 23.55                 | 23.55                 | 23.35                 |                              | 0        |
|                                       | 1       | 49        | 23.32                 | 23.42                 | 23.38                 |                              | 0        |
|                                       | 25      | 0         | 22.59                 | 22.34                 | 22.37                 | 0-1                          | 1        |
|                                       | 25      | 12        | 22.72                 | 22.44                 | 22.47                 |                              | 1        |
|                                       | 25      | 25        | 22.59                 | 22.46                 | 22.48                 |                              | 1        |
|                                       | 50      | 0         | 22.54                 | 22.39                 | 22.41                 |                              | 1        |
| 16QAM                                 | 1       | 0         | 22.73                 | 22.53                 | 22.70                 | 0-1                          | 1        |
|                                       | 1       | 25        | 22.98                 | 22.75                 | 22.78                 |                              | 1        |
|                                       | 1       | 49        | 22.64                 | 22.49                 | 22.74                 |                              | 1        |
|                                       | 25      | 0         | 21.61                 | 21.31                 | 21.28                 | 0-2                          | 2        |
|                                       | 25      | 12        | 21.70                 | 21.40                 | 21.38                 |                              | 2        |
|                                       | 25      | 25        | 21.58                 | 21.43                 | 21.42                 |                              | 2        |
|                                       | 50      | 0         | 21.56                 | 21.36                 | 21.40                 |                              | 2        |
| 64QAM                                 | 1       | 0         | 21.60                 | 21.27                 | 21.52                 | 0-2                          | 2        |
|                                       | 1       | 25        | 21.76                 | 21.58                 | 21.47                 |                              | 2        |
|                                       | 1       | 49        | 21.50                 | 21.41                 | 21.64                 |                              | 2        |
|                                       | 25      | 0         | 20.65                 | 20.37                 | 20.38                 | 0-3                          | 3        |
|                                       | 25      | 12        | 20.76                 | 20.50                 | 20.48                 |                              | 3        |
|                                       | 25      | 25        | 20.56                 | 20.46                 | 20.44                 |                              | 3        |
|                                       | 50      | 0         | 20.60                 | 20.39                 | 20.43                 |                              | 3        |
| 256QAM                                | 1       | 0         | 18.58                 | 18.23                 | 18.28                 | 0-5                          | 5        |
|                                       | 1       | 25        | 18.70                 | 18.60                 | 18.59                 |                              | 5        |
|                                       | 1       | 49        | 18.46                 | 18.54                 | 18.36                 |                              | 5        |
|                                       | 25      | 0         | 18.59                 | 18.36                 | 18.32                 |                              | 5        |
|                                       | 25      | 12        | 18.73                 | 18.46                 | 18.51                 |                              | 5        |
|                                       | 25      | 25        | 18.55                 | 18.48                 | 18.43                 |                              | 5        |
|                                       | 50      | 0         | 18.56                 | 18.38                 | 18.41                 |                              | 5        |

|                                      |                                                                                                                                                                                                                                   |                               |                                                                                       |                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of the</small>  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                | DUT Type:<br>Portable Handset |                                                                                       | Page 82 of 305                  |

**Table 9-52**  
**LTE Band 25 (PCS) Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 5 MHz Bandwidth**

| LTE Band 25 (PCS)<br>5 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|--------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                           | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                      |         |           | 26065<br>(1852.5 MHz) | 26365<br>(1882.5 MHz) | 26665<br>(1912.5 MHz) |                              |          |
|                                      |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                 | 1       | 0         | 23.40                 | 23.47                 | 23.36                 | 0                            | 0        |
|                                      | 1       | 12        | 23.48                 | 23.57                 | 23.40                 |                              | 0        |
|                                      | 1       | 24        | 23.51                 | 23.42                 | 23.41                 |                              | 0        |
|                                      | 12      | 0         | 22.56                 | 22.22                 | 22.22                 | 0-1                          | 1        |
|                                      | 12      | 6         | 22.56                 | 22.31                 | 22.33                 |                              | 1        |
|                                      | 12      | 13        | 22.62                 | 22.38                 | 22.28                 |                              | 1        |
|                                      | 25      | 0         | 22.55                 | 22.26                 | 22.33                 |                              | 1        |
| 16QAM                                | 1       | 0         | 22.89                 | 22.40                 | 22.51                 | 0-1                          | 1        |
|                                      | 1       | 12        | 22.95                 | 22.54                 | 22.46                 |                              | 1        |
|                                      | 1       | 24        | 23.00                 | 22.49                 | 22.44                 |                              | 1        |
|                                      | 12      | 0         | 21.47                 | 21.37                 | 21.33                 | 0-2                          | 2        |
|                                      | 12      | 6         | 21.52                 | 21.36                 | 21.35                 |                              | 2        |
|                                      | 12      | 13        | 21.48                 | 21.44                 | 21.32                 |                              | 2        |
|                                      | 25      | 0         | 21.62                 | 21.26                 | 21.29                 |                              | 2        |
| 64QAM                                | 1       | 0         | 21.71                 | 21.40                 | 21.47                 | 0-2                          | 2        |
|                                      | 1       | 12        | 21.68                 | 21.51                 | 21.46                 |                              | 2        |
|                                      | 1       | 24        | 21.77                 | 21.50                 | 21.50                 |                              | 2        |
|                                      | 12      | 0         | 20.58                 | 20.39                 | 20.29                 | 0-3                          | 3        |
|                                      | 12      | 6         | 20.61                 | 20.40                 | 20.33                 |                              | 3        |
|                                      | 12      | 13        | 20.56                 | 20.48                 | 20.37                 |                              | 3        |
|                                      | 25      | 0         | 20.52                 | 20.37                 | 20.27                 |                              | 3        |
| 256QAM                               | 1       | 0         | 18.72                 | 18.53                 | 18.45                 | 0-5                          | 5        |
|                                      | 1       | 12        | 18.79                 | 18.67                 | 18.49                 |                              | 5        |
|                                      | 1       | 24        | 18.83                 | 18.67                 | 18.46                 |                              | 5        |
|                                      | 12      | 0         | 18.78                 | 18.45                 | 18.44                 |                              | 5        |
|                                      | 12      | 6         | 18.80                 | 18.55                 | 18.53                 |                              | 5        |
|                                      | 12      | 13        | 18.81                 | 18.56                 | 18.47                 |                              | 5        |
|                                      | 25      | 0         | 18.73                 | 18.46                 | 18.50                 |                              | 5        |

|                                      |                                                                                                                                                                                                                                                                                                                                                                          |                               |                |                                 |
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| FCC ID: A3LSMN986U                   | <div><b>PCTEST</b><br/><small>Proud to be part of</small> </div> <div>SAR EVALUATION REPORT</div> <div></div> |                               |                | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                                                                                                       | DUT Type:<br>Portable Handset | Page 83 of 305 |                                 |

**Table 9-53**  
**LTE Band 25 (PCS) Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 3 MHz Bandwidth**

| LTE Band 25 (PCS)<br>3 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|--------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                           | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                      |         |           | 26055<br>(1851.5 MHz) | 26365<br>(1882.5 MHz) | 26675<br>(1913.5 MHz) |                              |          |
|                                      |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                 | 1       | 0         | 23.41                 | 23.38                 | 23.40                 | 0                            | 0        |
|                                      | 1       | 7         | 23.42                 | 23.47                 | 23.43                 |                              | 0        |
|                                      | 1       | 14        | 23.52                 | 23.53                 | 23.42                 |                              | 0        |
|                                      | 8       | 0         | 22.54                 | 22.34                 | 22.49                 | 0-1                          | 1        |
|                                      | 8       | 4         | 22.59                 | 22.53                 | 22.52                 |                              | 1        |
|                                      | 8       | 7         | 22.56                 | 22.56                 | 22.52                 |                              | 1        |
|                                      | 15      | 0         | 22.58                 | 22.48                 | 22.53                 |                              | 1        |
| 16QAM                                | 1       | 0         | 22.54                 | 22.55                 | 22.47                 | 0-1                          | 1        |
|                                      | 1       | 7         | 22.57                 | 22.42                 | 22.44                 |                              | 1        |
|                                      | 1       | 14        | 22.62                 | 22.45                 | 22.36                 |                              | 1        |
|                                      | 8       | 0         | 21.73                 | 21.41                 | 21.37                 | 0-2                          | 2        |
|                                      | 8       | 4         | 21.76                 | 21.42                 | 21.44                 |                              | 2        |
|                                      | 8       | 7         | 21.75                 | 21.49                 | 21.44                 |                              | 2        |
|                                      | 15      | 0         | 21.61                 | 21.37                 | 21.36                 |                              | 2        |
| 64QAM                                | 1       | 0         | 21.61                 | 21.50                 | 21.53                 | 0-2                          | 2        |
|                                      | 1       | 7         | 21.63                 | 21.41                 | 21.54                 |                              | 2        |
|                                      | 1       | 14        | 21.66                 | 21.42                 | 21.50                 |                              | 2        |
|                                      | 8       | 0         | 20.55                 | 20.47                 | 20.38                 | 0-3                          | 3        |
|                                      | 8       | 4         | 20.57                 | 20.33                 | 20.42                 |                              | 3        |
|                                      | 8       | 7         | 20.57                 | 20.36                 | 20.41                 |                              | 3        |
|                                      | 15      | 0         | 20.69                 | 20.50                 | 20.31                 |                              | 3        |
| 256QAM                               | 1       | 0         | 18.74                 | 18.84                 | 18.51                 | 0-5                          | 5        |
|                                      | 1       | 7         | 18.78                 | 18.84                 | 18.51                 |                              | 5        |
|                                      | 1       | 14        | 18.77                 | 18.79                 | 18.51                 |                              | 5        |
|                                      | 8       | 0         | 18.59                 | 18.49                 | 18.51                 |                              | 5        |
|                                      | 8       | 4         | 18.67                 | 18.54                 | 18.60                 |                              | 5        |
|                                      | 8       | 7         | 18.63                 | 18.56                 | 18.57                 |                              | 5        |
|                                      | 15      | 0         | 18.74                 | 18.40                 | 18.50                 |                              | 5        |

|                                      |                                                                                                                                                                                                                                                                                                                                               |                               |                |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------|
| FCC ID: A3LSMN986U                   | <div><div>PCTEST®<br/><small>Proud to be part of Samsung</small></div></div> <div>SAR EVALUATION REPORT</div> <div></div> <div>Approved by:<br/>Quality Manager</div> |                               |                |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                                                                            | DUT Type:<br>Portable Handset | Page 84 of 305 |

**Table 9-54**  
**LTE Band 25 (PCS) Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 1.4 MHz Bandwidth**

| LTE Band 25 (PCS)<br>1.4 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|----------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                             | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                        |         |           | 26047<br>(1850.7 MHz) | 26365<br>(1882.5 MHz) | 26683<br>(1914.3 MHz) |                              |          |
|                                        |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                   | 1       | 0         | 23.49                 | 23.26                 | 23.37                 | 0                            | 0        |
|                                        | 1       | 2         | 23.52                 | 23.43                 | 23.41                 |                              | 0        |
|                                        | 1       | 5         | 23.51                 | 23.38                 | 23.39                 |                              | 0        |
|                                        | 3       | 0         | 23.40                 | 23.36                 | 23.41                 |                              | 0        |
|                                        | 3       | 2         | 23.42                 | 23.48                 | 23.45                 |                              | 0        |
|                                        | 3       | 3         | 23.42                 | 23.48                 | 23.44                 |                              | 0        |
|                                        | 6       | 0         | 22.47                 | 22.48                 | 22.50                 | 0-1                          | 1        |
| 16QAM                                  | 1       | 0         | 22.41                 | 22.36                 | 22.38                 | 0-1                          | 1        |
|                                        | 1       | 2         | 22.50                 | 22.56                 | 22.47                 |                              | 1        |
|                                        | 1       | 5         | 22.47                 | 22.51                 | 22.41                 |                              | 1        |
|                                        | 3       | 0         | 22.46                 | 22.36                 | 22.28                 |                              | 1        |
|                                        | 3       | 2         | 22.53                 | 22.50                 | 22.37                 |                              | 1        |
|                                        | 3       | 3         | 22.53                 | 22.45                 | 22.32                 |                              | 1        |
|                                        | 6       | 0         | 21.51                 | 21.47                 | 21.43                 | 0-2                          | 2        |
| 64QAM                                  | 1       | 0         | 21.72                 | 21.29                 | 21.33                 | 0-2                          | 2        |
|                                        | 1       | 2         | 21.85                 | 21.41                 | 21.40                 |                              | 2        |
|                                        | 1       | 5         | 21.75                 | 21.44                 | 21.41                 |                              | 2        |
|                                        | 3       | 0         | 21.56                 | 21.23                 | 21.38                 |                              | 2        |
|                                        | 3       | 2         | 21.60                 | 21.40                 | 21.34                 |                              | 2        |
|                                        | 3       | 3         | 21.56                 | 21.33                 | 21.38                 |                              | 2        |
|                                        | 6       | 0         | 20.58                 | 20.24                 | 20.31                 | 0-3                          | 3        |
| 256QAM                                 | 1       | 0         | 18.63                 | 18.39                 | 18.38                 | 0-5                          | 5        |
|                                        | 1       | 2         | 18.72                 | 18.43                 | 18.49                 |                              | 5        |
|                                        | 1       | 5         | 18.65                 | 18.50                 | 18.40                 |                              | 5        |
|                                        | 3       | 0         | 18.70                 | 18.43                 | 18.43                 |                              | 5        |
|                                        | 3       | 2         | 18.74                 | 18.52                 | 18.42                 |                              | 5        |
|                                        | 3       | 3         | 18.67                 | 18.46                 | 18.34                 |                              | 5        |
|                                        | 6       | 0         | 18.66                 | 18.40                 | 18.44                 | 5                            |          |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 85 of 305                                                                        |                                        |

**Table 9-55**  
**LTE Band 25 (PCS) Measured Plimit for DSI = 3 (Hotspot mode) - 20 MHz Bandwidth**

| LTE Band 25 (PCS)<br>20 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|---------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 26140<br>(1860.0 MHz) | 26365<br>(1882.5 MHz) | 26590<br>(1905.0 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                  | 1       | 0         | 19.32                 | 19.15                 | 19.03                 | 0                            | 0        |
|                                       | 1       | 50        | 19.36                 | 19.08                 | 19.07                 |                              | 0        |
|                                       | 1       | 99        | 19.26                 | 19.11                 | 19.06                 |                              | 0        |
|                                       | 50      | 0         | 19.36                 | 19.15                 | 19.06                 | 0-1                          | 0        |
|                                       | 50      | 25        | 19.35                 | 19.11                 | 19.21                 |                              | 0        |
|                                       | 50      | 50        | 19.18                 | 19.15                 | 19.15                 |                              | 0        |
|                                       | 100     | 0         | 19.14                 | 19.08                 | 19.18                 |                              | 0        |
| 16QAM                                 | 1       | 0         | 19.43                 | 19.22                 | 19.20                 | 0-1                          | 0        |
|                                       | 1       | 50        | 19.43                 | 19.34                 | 19.11                 |                              | 0        |
|                                       | 1       | 99        | 19.22                 | 19.13                 | 19.30                 |                              | 0        |
|                                       | 50      | 0         | 19.36                 | 19.18                 | 19.16                 | 0-2                          | 0        |
|                                       | 50      | 25        | 19.39                 | 19.13                 | 19.22                 |                              | 0        |
|                                       | 50      | 50        | 19.21                 | 19.17                 | 19.05                 |                              | 0        |
|                                       | 100     | 0         | 19.17                 | 19.07                 | 19.15                 |                              | 0        |
| 64QAM                                 | 1       | 0         | 19.26                 | 19.23                 | 19.25                 | 0-2                          | 0        |
|                                       | 1       | 50        | 19.18                 | 19.26                 | 19.38                 |                              | 0        |
|                                       | 1       | 99        | 19.37                 | 19.24                 | 19.35                 |                              | 0        |
|                                       | 50      | 0         | 19.28                 | 19.15                 | 19.07                 | 0-3                          | 0        |
|                                       | 50      | 25        | 19.28                 | 19.14                 | 19.12                 |                              | 0        |
|                                       | 50      | 50        | 19.19                 | 19.22                 | 19.27                 |                              | 0        |
|                                       | 100     | 0         | 19.23                 | 19.03                 | 19.08                 |                              | 0        |
| 256QAM                                | 1       | 0         | 19.27                 | 18.54                 | 18.64                 | 0-5                          | 0        |
|                                       | 1       | 50        | 19.12                 | 19.17                 | 18.97                 |                              | 0        |
|                                       | 1       | 99        | 19.10                 | 19.03                 | 18.68                 |                              | 0        |
|                                       | 50      | 0         | 19.07                 | 18.85                 | 18.87                 |                              | 0        |
|                                       | 50      | 25        | 19.24                 | 18.81                 | 18.86                 |                              | 0        |
|                                       | 50      | 50        | 19.03                 | 18.87                 | 18.95                 |                              | 0        |
|                                       | 100     | 0         | 19.09                 | 18.84                 | 18.79                 |                              | 0        |

|                                      |                                                                                                                                                                                                                                                                                                                               |                               |                |
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| FCC ID: A3LSMN986U                   | <div><div>PCTEST<br/>Proud to be part of Samsung</div></div> <div>SAR EVALUATION REPORT</div> <div></div> <div>Approved by:<br/>Quality Manager</div> |                               |                |
| Document S/N:<br>1M2004170065-01_A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                                                            | DUT Type:<br>Portable Handset | Page 86 of 305 |

**Table 9-56**  
**LTE Band 25 (PCS) Measured Plimit for DSI = 3 (Hotspot mode) - 15 MHz Bandwidth**

| LTE Band 25 (PCS)<br>15 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|---------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 26115<br>(1857.5 MHz) | 26365<br>(1882.5 MHz) | 26615<br>(1907.5 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                  | 1       | 0         | 18.91                 | 18.78                 | 18.77                 | 0                            | 0        |
|                                       | 1       | 36        | 19.20                 | 18.84                 | 18.84                 |                              | 0        |
|                                       | 1       | 74        | 18.93                 | 18.80                 | 18.79                 |                              | 0        |
|                                       | 36      | 0         | 19.09                 | 18.88                 | 18.82                 | 0-1                          | 0        |
|                                       | 36      | 18        | 19.13                 | 18.97                 | 19.02                 |                              | 0        |
|                                       | 36      | 37        | 19.09                 | 19.02                 | 18.99                 |                              | 0        |
|                                       | 75      | 0         | 19.05                 | 18.97                 | 18.82                 |                              | 0        |
| 16QAM                                 | 1       | 0         | 19.40                 | 19.37                 | 19.41                 | 0-1                          | 0        |
|                                       | 1       | 36        | 19.38                 | 19.24                 | 19.44                 |                              | 0        |
|                                       | 1       | 74        | 19.32                 | 19.22                 | 19.38                 |                              | 0        |
|                                       | 36      | 0         | 19.20                 | 18.86                 | 18.88                 | 0-2                          | 0        |
|                                       | 36      | 18        | 19.24                 | 19.00                 | 19.08                 |                              | 0        |
|                                       | 36      | 37        | 19.18                 | 19.03                 | 19.07                 |                              | 0        |
|                                       | 75      | 0         | 19.09                 | 18.99                 | 18.87                 |                              | 0        |
| 64QAM                                 | 1       | 0         | 19.43                 | 19.36                 | 19.27                 | 0-2                          | 0        |
|                                       | 1       | 36        | 19.44                 | 19.46                 | 19.39                 |                              | 0        |
|                                       | 1       | 74        | 19.42                 | 19.39                 | 19.31                 |                              | 0        |
|                                       | 36      | 0         | 19.20                 | 18.89                 | 18.84                 | 0-3                          | 0        |
|                                       | 36      | 18        | 19.24                 | 19.02                 | 19.04                 |                              | 0        |
|                                       | 36      | 37        | 19.19                 | 19.04                 | 18.99                 |                              | 0        |
|                                       | 75      | 0         | 19.17                 | 19.03                 | 18.90                 |                              | 0        |
| 256QAM                                | 1       | 0         | 19.17                 | 19.22                 | 18.55                 | 0-5                          | 0        |
|                                       | 1       | 36        | 19.11                 | 19.25                 | 18.64                 |                              | 0        |
|                                       | 1       | 74        | 19.08                 | 19.11                 | 18.62                 |                              | 0        |
|                                       | 36      | 0         | 19.01                 | 18.85                 | 18.74                 |                              | 0        |
|                                       | 36      | 18        | 19.12                 | 18.75                 | 18.75                 |                              | 0        |
|                                       | 36      | 37        | 19.13                 | 18.68                 | 18.71                 |                              | 0        |
|                                       | 75      | 0         | 19.10                 | 18.59                 | 18.65                 |                              | 0        |

|                                      |                                                                                                                                                                                                                               |                               |                                                                                       |                                 |
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| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                            | DUT Type:<br>Portable Handset |                                                                                       | Page 87 of 305                  |

**Table 9-57**  
**LTE Band 25 (PCS) Measured Plimit for DSI = 3 (Hotspot mode) - 10 MHz Bandwidth**

| LTE Band 25 (PCS)<br>10 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|---------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 26090<br>(1855.0 MHz) | 26365<br>(1882.5 MHz) | 26640<br>(1910.0 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                  | 1       | 0         | 19.04                 | 18.54                 | 18.88                 | 0                            | 0        |
|                                       | 1       | 25        | 19.15                 | 18.75                 | 18.86                 |                              | 0        |
|                                       | 1       | 49        | 18.96                 | 18.59                 | 18.90                 |                              | 0        |
|                                       | 25      | 0         | 19.15                 | 18.84                 | 18.84                 | 0-1                          | 0        |
|                                       | 25      | 12        | 19.27                 | 18.95                 | 18.92                 |                              | 0        |
|                                       | 25      | 25        | 19.11                 | 18.98                 | 18.94                 |                              | 0        |
|                                       | 50      | 0         | 19.10                 | 18.86                 | 18.88                 |                              | 0        |
| 16QAM                                 | 1       | 0         | 19.34                 | 19.34                 | 19.38                 | 0-1                          | 0        |
|                                       | 1       | 25        | 19.44                 | 19.32                 | 19.50                 |                              | 0        |
|                                       | 1       | 49        | 19.36                 | 19.33                 | 19.43                 |                              | 0        |
|                                       | 25      | 0         | 19.25                 | 18.90                 | 18.83                 | 0-2                          | 0        |
|                                       | 25      | 12        | 19.35                 | 19.04                 | 18.90                 |                              | 0        |
|                                       | 25      | 25        | 19.17                 | 19.03                 | 18.96                 |                              | 0        |
|                                       | 50      | 0         | 19.13                 | 18.89                 | 18.89                 |                              | 0        |
| 64QAM                                 | 1       | 0         | 19.38                 | 19.04                 | 19.34                 | 0-2                          | 0        |
|                                       | 1       | 25        | 19.42                 | 19.35                 | 19.37                 |                              | 0        |
|                                       | 1       | 49        | 19.23                 | 19.14                 | 19.41                 |                              | 0        |
|                                       | 25      | 0         | 19.17                 | 18.85                 | 18.89                 | 0-3                          | 0        |
|                                       | 25      | 12        | 19.30                 | 18.93                 | 19.02                 |                              | 0        |
|                                       | 25      | 25        | 19.08                 | 18.97                 | 19.00                 |                              | 0        |
|                                       | 50      | 0         | 19.13                 | 18.89                 | 18.93                 |                              | 0        |
| 256QAM                                | 1       | 0         | 19.11                 | 18.90                 | 18.85                 | 0-5                          | 0        |
|                                       | 1       | 25        | 19.07                 | 18.85                 | 18.78                 |                              | 0        |
|                                       | 1       | 49        | 19.06                 | 18.79                 | 18.65                 |                              | 0        |
|                                       | 25      | 0         | 19.10                 | 18.86                 | 18.59                 |                              | 0        |
|                                       | 25      | 12        | 19.11                 | 18.80                 | 18.60                 |                              | 0        |
|                                       | 25      | 25        | 19.00                 | 18.71                 | 18.65                 |                              | 0        |
|                                       | 50      | 0         | 19.02                 | 18.60                 | 18.50                 |                              | 0        |

|                                             |                                                                                                                                                                                                                               |                                      |                                                                                       |                                        |
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| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                     | <b>DUT Type:</b><br>Portable Handset | Page 88 of 305                                                                        |                                        |



**Table 9-58**  
**LTE Band 25 (PCS) Measured Plimit for DSI = 3 (Hotspot mode) - 5 MHz Bandwidth**

| LTE Band 25 (PCS)<br>5 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|--------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                           | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                      |         |           | 26065<br>(1852.5 MHz) | 26365<br>(1882.5 MHz) | 26665<br>(1912.5 MHz) |                              |          |
|                                      |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                 | 1       | 0         | 18.94                 | 18.67                 | 18.76                 | 0                            | 0        |
|                                      | 1       | 12        | 19.01                 | 18.76                 | 18.77                 |                              | 0        |
|                                      | 1       | 24        | 19.03                 | 18.82                 | 18.80                 |                              | 0        |
|                                      | 12      | 0         | 19.17                 | 18.77                 | 18.90                 | 0-1                          | 0        |
|                                      | 12      | 6         | 19.26                 | 18.86                 | 18.96                 |                              | 0        |
|                                      | 12      | 13        | 19.27                 | 18.96                 | 18.92                 |                              | 0        |
|                                      | 25      | 0         | 19.23                 | 18.87                 | 18.93                 |                              | 0        |
| 16QAM                                | 1       | 0         | 19.50                 | 19.31                 | 19.39                 | 0-1                          | 0        |
|                                      | 1       | 12        | 19.47                 | 19.43                 | 19.33                 |                              | 0        |
|                                      | 1       | 24        | 19.46                 | 19.47                 | 19.30                 |                              | 0        |
|                                      | 12      | 0         | 19.22                 | 18.95                 | 18.91                 | 0-2                          | 0        |
|                                      | 12      | 6         | 19.29                 | 19.04                 | 19.01                 |                              | 0        |
|                                      | 12      | 13        | 19.30                 | 19.11                 | 19.01                 |                              | 0        |
|                                      | 25      | 0         | 19.22                 | 18.95                 | 18.99                 |                              | 0        |
| 64QAM                                | 1       | 0         | 19.25                 | 19.28                 | 19.27                 | 0-2                          | 0        |
|                                      | 1       | 12        | 19.29                 | 19.40                 | 19.22                 |                              | 0        |
|                                      | 1       | 24        | 19.38                 | 19.39                 | 19.23                 |                              | 0        |
|                                      | 12      | 0         | 19.28                 | 18.93                 | 18.97                 | 0-3                          | 0        |
|                                      | 12      | 6         | 19.31                 | 18.99                 | 19.03                 |                              | 0        |
|                                      | 12      | 13        | 19.35                 | 19.01                 | 19.01                 |                              | 0        |
|                                      | 25      | 0         | 19.24                 | 18.90                 | 18.95                 |                              | 0        |
| 256QAM                               | 1       | 0         | 19.22                 | 18.94                 | 18.88                 | 0-5                          | 0        |
|                                      | 1       | 12        | 19.15                 | 18.96                 | 18.75                 |                              | 0        |
|                                      | 1       | 24        | 19.18                 | 19.00                 | 18.77                 |                              | 0        |
|                                      | 12      | 0         | 19.19                 | 18.66                 | 18.61                 |                              | 0        |
|                                      | 12      | 6         | 19.22                 | 18.62                 | 18.55                 |                              | 0        |
|                                      | 12      | 13        | 19.05                 | 18.55                 | 18.72                 |                              | 0        |
|                                      | 25      | 0         | 19.07                 | 18.48                 | 18.55                 |                              | 0        |

|                                      |                                                                                                                                                                                                                               |                               |                                                                                       |                                 |
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| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                            | DUT Type:<br>Portable Handset |                                                                                       | Page 89 of 305                  |

**Table 9-59**  
**LTE Band 25 (PCS) Measured Plimit for DSI = 3 (Hotspot mode) - 3 MHz Bandwidth**

| LTE Band 25 (PCS)<br>3 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|--------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                           | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                      |         |           | 26055<br>(1851.5 MHz) | 26365<br>(1882.5 MHz) | 26675<br>(1913.5 MHz) |                              |          |
|                                      |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                 | 1       | 0         | 19.04                 | 18.74                 | 18.91                 | 0                            | 0        |
|                                      | 1       | 7         | 18.97                 | 18.78                 | 18.91                 |                              | 0        |
|                                      | 1       | 14        | 19.12                 | 18.85                 | 18.95                 |                              | 0        |
|                                      | 8       | 0         | 19.21                 | 18.91                 | 18.90                 | 0-1                          | 0        |
|                                      | 8       | 4         | 19.19                 | 18.95                 | 18.93                 |                              | 0        |
|                                      | 8       | 7         | 19.23                 | 19.02                 | 18.98                 |                              | 0        |
|                                      | 15      | 0         | 19.22                 | 18.89                 | 18.97                 |                              | 0        |
| 16QAM                                | 1       | 0         | 19.21                 | 19.43                 | 19.49                 | 0-1                          | 0        |
|                                      | 1       | 7         | 19.14                 | 19.48                 | 19.45                 |                              | 0        |
|                                      | 1       | 14        | 19.24                 | 19.44                 | 19.46                 |                              | 0        |
|                                      | 8       | 0         | 19.22                 | 18.82                 | 18.95                 | 0-2                          | 0        |
|                                      | 8       | 4         | 19.27                 | 18.91                 | 19.00                 |                              | 0        |
|                                      | 8       | 7         | 19.22                 | 18.97                 | 18.94                 |                              | 0        |
|                                      | 15      | 0         | 19.23                 | 18.95                 | 18.97                 |                              | 0        |
| 64QAM                                | 1       | 0         | 19.20                 | 19.25                 | 19.45                 | 0-2                          | 0        |
|                                      | 1       | 7         | 19.14                 | 19.33                 | 19.47                 |                              | 0        |
|                                      | 1       | 14        | 19.21                 | 19.44                 | 19.36                 |                              | 0        |
|                                      | 8       | 0         | 19.27                 | 18.91                 | 19.07                 | 0-3                          | 0        |
|                                      | 8       | 4         | 19.33                 | 18.94                 | 19.08                 |                              | 0        |
|                                      | 8       | 7         | 19.35                 | 18.97                 | 19.06                 |                              | 0        |
|                                      | 15      | 0         | 19.34                 | 18.96                 | 18.95                 |                              | 0        |
| 256QAM                               | 1       | 0         | 19.22                 | 18.85                 | 18.88                 | 0-5                          | 0        |
|                                      | 1       | 7         | 19.25                 | 18.80                 | 18.81                 |                              | 0        |
|                                      | 1       | 14        | 19.20                 | 18.77                 | 18.72                 |                              | 0        |
|                                      | 8       | 0         | 19.14                 | 18.81                 | 18.74                 |                              | 0        |
|                                      | 8       | 4         | 19.19                 | 18.80                 | 18.55                 |                              | 0        |
|                                      | 8       | 7         | 19.04                 | 18.73                 | 18.66                 |                              | 0        |
|                                      | 15      | 0         | 19.01                 | 18.65                 | 18.52                 |                              | 0        |

|                                      |                                                                                                                                                                                                                               |                               |                                                                                       |                                 |
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| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                            | DUT Type:<br>Portable Handset |                                                                                       | Page 90 of 305                  |

**Table 9-60**  
**LTE Band 25 (PCS) Measured Plimit for DSI = 3 (Hotspot mode) – 1.4 MHz Bandwidth**

| LTE Band 25 (PCS)<br>1.4 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|----------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                             | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                        |         |           | 26047<br>(1850.7 MHz) | 26365<br>(1882.5 MHz) | 26683<br>(1914.3 MHz) |                              |          |
|                                        |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                   | 1       | 0         | 19.00                 | 18.74                 | 18.85                 | 0                            | 0        |
|                                        | 1       | 2         | 19.06                 | 18.89                 | 18.86                 |                              | 0        |
|                                        | 1       | 5         | 19.02                 | 18.85                 | 18.88                 |                              | 0        |
|                                        | 3       | 0         | 19.04                 | 18.63                 | 18.71                 |                              | 0        |
|                                        | 3       | 2         | 19.08                 | 18.71                 | 18.72                 |                              | 0        |
|                                        | 3       | 3         | 19.05                 | 18.69                 | 18.68                 |                              | 0        |
|                                        | 6       | 0         | 19.17                 | 18.83                 | 18.85                 | 0-1                          | 0        |
| 16QAM                                  | 1       | 0         | 19.45                 | 19.21                 | 19.42                 | 0-1                          | 0        |
|                                        | 1       | 2         | 19.50                 | 19.36                 | 19.29                 |                              | 0        |
|                                        | 1       | 5         | 19.45                 | 19.31                 | 19.30                 |                              | 0        |
|                                        | 3       | 0         | 19.23                 | 18.96                 | 18.98                 |                              | 0        |
|                                        | 3       | 2         | 19.26                 | 19.08                 | 19.02                 |                              | 0        |
|                                        | 3       | 3         | 19.26                 | 19.05                 | 18.99                 |                              | 0        |
|                                        | 6       | 0         | 19.24                 | 18.71                 | 18.95                 | 0-2                          | 0        |
| 64QAM                                  | 1       | 0         | 19.50                 | 19.49                 | 19.36                 | 0-2                          | 0        |
|                                        | 1       | 2         | 19.35                 | 19.39                 | 19.46                 |                              | 0        |
|                                        | 1       | 5         | 19.25                 | 19.24                 | 19.45                 |                              | 0        |
|                                        | 3       | 0         | 19.21                 | 19.05                 | 18.94                 |                              | 0        |
|                                        | 3       | 2         | 19.27                 | 19.10                 | 19.02                 |                              | 0        |
|                                        | 3       | 3         | 19.22                 | 19.09                 | 18.97                 |                              | 0        |
|                                        | 6       | 0         | 19.17                 | 18.84                 | 18.76                 | 0-3                          | 0        |
| 256QAM                                 | 1       | 0         | 19.00                 | 18.85                 | 18.66                 | 0-5                          | 0        |
|                                        | 1       | 2         | 19.11                 | 18.88                 | 18.75                 |                              | 0        |
|                                        | 1       | 5         | 19.07                 | 18.77                 | 18.76                 |                              | 0        |
|                                        | 3       | 0         | 18.77                 | 18.77                 | 18.76                 |                              | 0        |
|                                        | 3       | 2         | 18.85                 | 18.76                 | 18.67                 |                              | 0        |
|                                        | 3       | 3         | 18.86                 | 18.70                 | 18.66                 |                              | 0        |
|                                        | 6       | 0         | 18.86                 | 18.65                 | 18.50                 |                              | 0        |

|                                      |                                                                                                                                                                                                                               |                               |                                                                                       |                                 |
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| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                            | DUT Type:<br>Portable Handset |                                                                                       | Page 91 of 305                  |

**Table 9-61**  
**LTE Band 25 (PCS) Measured Plimit for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) – 20 MHz Bandwidth**

| LTE Band 25 (PCS)<br>20 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|---------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 26140<br>(1860.0 MHz) | 26365<br>(1882.5 MHz) | 26590<br>(1905.0 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                  | 1       | 0         | 21.80                 | 21.29                 | 21.31                 | 0                            | 0        |
|                                       | 1       | 50        | 21.74                 | 21.68                 | 21.76                 |                              | 0        |
|                                       | 1       | 99        | 21.69                 | 21.33                 | 21.36                 |                              | 0        |
|                                       | 50      | 0         | 21.82                 | 21.55                 | 21.60                 | 0-1                          | 0        |
|                                       | 50      | 25        | 21.90                 | 21.59                 | 21.88                 |                              | 0        |
|                                       | 50      | 50        | 21.68                 | 21.84                 | 21.60                 |                              | 0        |
|                                       | 100     | 0         | 21.60                 | 21.57                 | 21.75                 |                              | 0        |
| 16QAM                                 | 1       | 0         | 22.00                 | 21.89                 | 21.91                 | 0-1                          | 0        |
|                                       | 1       | 50        | 21.98                 | 21.90                 | 21.92                 |                              | 0        |
|                                       | 1       | 99        | 21.90                 | 22.00                 | 21.90                 |                              | 0        |
|                                       | 50      | 0         | 21.75                 | 21.58                 | 21.93                 | 0-2                          | 0        |
|                                       | 50      | 25        | 21.64                 | 21.63                 | 21.91                 |                              | 0        |
|                                       | 50      | 50        | 21.62                 | 21.67                 | 21.92                 |                              | 0        |
|                                       | 100     | 0         | 21.65                 | 21.56                 | 21.92                 |                              | 0        |
| 64QAM                                 | 1       | 0         | 21.84                 | 21.76                 | 21.91                 | 0-2                          | 0        |
|                                       | 1       | 50        | 21.79                 | 21.85                 | 21.89                 |                              | 0        |
|                                       | 1       | 99        | 21.80                 | 21.78                 | 21.90                 |                              | 0        |
|                                       | 50      | 0         | 20.85                 | 20.68                 | 20.91                 | 0-3                          | 0.5      |
|                                       | 50      | 25        | 20.83                 | 20.68                 | 20.89                 |                              | 0.5      |
|                                       | 50      | 50        | 20.72                 | 20.68                 | 20.90                 |                              | 0.5      |
|                                       | 100     | 0         | 20.85                 | 20.66                 | 20.87                 |                              | 0.5      |
| 256QAM                                | 1       | 0         | 18.56                 | 18.59                 | 18.53                 | 0-5                          | 2.5      |
|                                       | 1       | 50        | 18.66                 | 18.83                 | 18.90                 |                              | 2.5      |
|                                       | 1       | 99        | 18.55                 | 18.60                 | 18.58                 |                              | 2.5      |
|                                       | 50      | 0         | 18.72                 | 18.50                 | 18.55                 |                              | 2.5      |
|                                       | 50      | 25        | 18.86                 | 18.63                 | 18.67                 |                              | 2.5      |
|                                       | 50      | 50        | 18.68                 | 18.64                 | 18.69                 |                              | 2.5      |
|                                       | 100     | 0         | 18.70                 | 18.56                 | 18.66                 |                              | 2.5      |

|                                             |                                                                                                                                                                                                                               |                                      |                                                                                       |                                        |
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| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                     | <b>DUT Type:</b><br>Portable Handset | Page 92 of 305                                                                        |                                        |

**Table 9-62**  
**LTE Band 25 (PCS) Measured Plimit for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) – 15 MHz Bandwidth**

| LTE Band 25 (PCS)<br>15 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|---------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 26115<br>(1857.5 MHz) | 26365<br>(1882.5 MHz) | 26615<br>(1907.5 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                  | 1       | 0         | 21.33                 | 21.53                 | 21.30                 | 0                            | 0        |
|                                       | 1       | 36        | 21.62                 | 21.55                 | 21.38                 |                              | 0        |
|                                       | 1       | 74        | 21.38                 | 21.50                 | 21.27                 |                              | 0        |
|                                       | 36      | 0         | 21.64                 | 21.34                 | 21.34                 | 0-1                          | 0        |
|                                       | 36      | 18        | 21.69                 | 21.50                 | 21.56                 |                              | 0        |
|                                       | 36      | 37        | 21.58                 | 21.51                 | 21.51                 |                              | 0        |
|                                       | 75      | 0         | 21.56                 | 21.43                 | 21.37                 |                              | 0        |
| 16QAM                                 | 1       | 0         | 21.48                 | 21.35                 | 21.65                 | 0-1                          | 0        |
|                                       | 1       | 36        | 21.76                 | 21.43                 | 21.73                 |                              | 0        |
|                                       | 1       | 74        | 21.50                 | 21.36                 | 21.65                 |                              | 0        |
|                                       | 36      | 0         | 21.64                 | 21.46                 | 21.48                 | 0-2                          | 0        |
|                                       | 36      | 18        | 21.71                 | 21.56                 | 21.69                 |                              | 0        |
|                                       | 36      | 37        | 21.63                 | 21.59                 | 21.64                 |                              | 0        |
|                                       | 75      | 0         | 21.62                 | 21.49                 | 21.44                 |                              | 0        |
| 64QAM                                 | 1       | 0         | 21.47                 | 21.61                 | 21.44                 | 0-2                          | 0        |
|                                       | 1       | 36        | 21.75                 | 21.72                 | 21.58                 |                              | 0        |
|                                       | 1       | 74        | 21.44                 | 21.72                 | 21.49                 |                              | 0        |
|                                       | 36      | 0         | 20.74                 | 20.41                 | 20.49                 | 0-3                          | 0.5      |
|                                       | 36      | 18        | 20.81                 | 20.51                 | 20.70                 |                              | 0.5      |
|                                       | 36      | 37        | 20.74                 | 20.56                 | 20.63                 |                              | 0.5      |
|                                       | 75      | 0         | 20.71                 | 20.55                 | 20.39                 |                              | 0.5      |
| 256QAM                                | 1       | 0         | 18.80                 | 19.04                 | 19.02                 | 0-5                          | 2.5      |
|                                       | 1       | 36        | 18.75                 | 19.08                 | 19.13                 |                              | 2.5      |
|                                       | 1       | 74        | 18.62                 | 19.12                 | 18.85                 |                              | 2.5      |
|                                       | 36      | 0         | 18.73                 | 18.88                 | 19.02                 |                              | 2.5      |
|                                       | 36      | 18        | 18.77                 | 18.95                 | 18.92                 |                              | 2.5      |
|                                       | 36      | 37        | 18.69                 | 18.91                 | 18.88                 |                              | 2.5      |
|                                       | 75      | 0         | 18.63                 | 18.80                 | 18.85                 |                              | 2.5      |

|                                      |                                                                                                                                                                                                                                                                                                 |                               |                                 |
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| FCC ID: A3LSMN986U                   | <div><b>PCTEST</b><br/><small>Proud to be part of ROHM Group</small></div> <div>SAR EVALUATION REPORT</div> <div></div> |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                              | DUT Type:<br>Portable Handset | Page 93 of 305                  |

**Table 9-63**  
**LTE Band 25 (PCS) Measured Plimit for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) – 10 MHz Bandwidth**

| LTE Band 25 (PCS)<br>10 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|---------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                            | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                       |         |           | 26090<br>(1855.0 MHz) | 26365<br>(1882.5 MHz) | 26640<br>(1910.0 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                  | 1       | 0         | 21.36                 | 21.08                 | 21.34                 | 0                            | 0        |
|                                       | 1       | 25        | 21.53                 | 21.23                 | 21.29                 |                              | 0        |
|                                       | 1       | 49        | 21.29                 | 21.01                 | 21.29                 |                              | 0        |
|                                       | 25      | 0         | 21.67                 | 21.31                 | 21.31                 | 0-1                          | 0        |
|                                       | 25      | 12        | 21.75                 | 21.43                 | 21.41                 |                              | 0        |
|                                       | 25      | 25        | 21.62                 | 21.45                 | 21.44                 |                              | 0        |
|                                       | 50      | 0         | 21.61                 | 21.39                 | 21.34                 |                              | 0        |
| 16QAM                                 | 1       | 0         | 21.52                 | 21.15                 | 21.51                 | 0-1                          | 0        |
|                                       | 1       | 25        | 21.71                 | 21.37                 | 21.52                 |                              | 0        |
|                                       | 1       | 49        | 21.42                 | 21.16                 | 21.54                 |                              | 0        |
|                                       | 25      | 0         | 21.75                 | 21.44                 | 21.38                 | 0-2                          | 0        |
|                                       | 25      | 12        | 21.85                 | 21.55                 | 21.48                 |                              | 0        |
|                                       | 25      | 25        | 21.68                 | 21.59                 | 21.47                 |                              | 0        |
|                                       | 50      | 0         | 21.63                 | 21.36                 | 21.37                 |                              | 0        |
| 64QAM                                 | 1       | 0         | 21.50                 | 21.31                 | 21.38                 | 0-2                          | 0        |
|                                       | 1       | 25        | 21.73                 | 21.62                 | 21.50                 |                              | 0        |
|                                       | 1       | 49        | 21.37                 | 21.33                 | 21.45                 |                              | 0        |
|                                       | 25      | 0         | 20.82                 | 20.45                 | 20.42                 | 0-3                          | 0.5      |
|                                       | 25      | 12        | 20.88                 | 20.58                 | 20.53                 |                              | 0.5      |
|                                       | 25      | 25        | 20.75                 | 20.55                 | 20.51                 |                              | 0.5      |
|                                       | 50      | 0         | 20.69                 | 20.45                 | 20.38                 |                              | 0.5      |
| 256QAM                                | 1       | 0         | 18.90                 | 18.72                 | 18.81                 | 0-5                          | 2.5      |
|                                       | 1       | 25        | 19.10                 | 19.03                 | 18.80                 |                              | 2.5      |
|                                       | 1       | 49        | 18.84                 | 18.85                 | 18.75                 |                              | 2.5      |
|                                       | 25      | 0         | 19.02                 | 18.85                 | 19.00                 |                              | 2.5      |
|                                       | 25      | 12        | 19.14                 | 18.76                 | 18.88                 |                              | 2.5      |
|                                       | 25      | 25        | 18.78                 | 18.77                 | 18.89                 |                              | 2.5      |
|                                       | 50      | 0         | 18.73                 | 18.77                 | 18.77                 |                              | 2.5      |

|                                      |                                                                                                                                                        |                               |                                                                                       |                                 |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of the ROHM group</small> | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                     | DUT Type:<br>Portable Handset | Page 94 of 305                                                                        |                                 |

**Table 9-64**  
**LTE Band 25 (PCS) Measured Plimit for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) – 5 MHz Bandwidth**

| LTE Band 25 (PCS)<br>5 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|--------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                           | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                      |         |           | 26065<br>(1852.5 MHz) | 26365<br>(1882.5 MHz) | 26665<br>(1912.5 MHz) |                              |          |
|                                      |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                 | 1       | 0         | 21.68                 | 21.33                 | 21.22                 | 0                            | 0        |
|                                      | 1       | 12        | 21.69                 | 21.39                 | 21.25                 |                              | 0        |
|                                      | 1       | 24        | 21.72                 | 21.43                 | 21.28                 |                              | 0        |
|                                      | 12      | 0         | 21.70                 | 21.39                 | 21.39                 | 0-1                          | 0        |
|                                      | 12      | 6         | 21.75                 | 21.43                 | 21.45                 |                              | 0        |
|                                      | 12      | 13        | 21.77                 | 21.52                 | 21.44                 |                              | 0        |
|                                      | 25      | 0         | 21.74                 | 21.45                 | 21.46                 |                              | 0        |
| 16QAM                                | 1       | 0         | 21.84                 | 21.89                 | 21.48                 | 0-1                          | 0        |
|                                      | 1       | 12        | 21.93                 | 21.90                 | 21.42                 |                              | 0        |
|                                      | 1       | 24        | 21.93                 | 21.94                 | 21.41                 |                              | 0        |
|                                      | 12      | 0         | 21.87                 | 21.32                 | 21.47                 | 0-2                          | 0        |
|                                      | 12      | 6         | 21.94                 | 21.37                 | 21.52                 |                              | 0        |
|                                      | 12      | 13        | 21.85                 | 21.40                 | 21.49                 |                              | 0        |
|                                      | 25      | 0         | 21.72                 | 21.48                 | 21.45                 |                              | 0        |
| 64QAM                                | 1       | 0         | 21.65                 | 21.58                 | 21.63                 | 0-2                          | 0        |
|                                      | 1       | 12        | 21.75                 | 21.63                 | 21.66                 |                              | 0        |
|                                      | 1       | 24        | 21.71                 | 21.73                 | 21.64                 |                              | 0        |
|                                      | 12      | 0         | 20.87                 | 20.65                 | 20.49                 | 0-3                          | 0.5      |
|                                      | 12      | 6         | 20.92                 | 20.74                 | 20.52                 |                              | 0.5      |
|                                      | 12      | 13        | 20.87                 | 20.53                 | 20.47                 |                              | 0.5      |
|                                      | 25      | 0         | 20.84                 | 20.65                 | 20.44                 |                              | 0.5      |
| 256QAM                               | 1       | 0         | 18.99                 | 18.76                 | 18.79                 | 0-5                          | 2.5      |
|                                      | 1       | 12        | 19.04                 | 18.95                 | 18.82                 |                              | 2.5      |
|                                      | 1       | 24        | 19.05                 | 18.98                 | 18.81                 |                              | 2.5      |
|                                      | 12      | 0         | 18.94                 | 18.83                 | 18.83                 |                              | 2.5      |
|                                      | 12      | 6         | 18.96                 | 18.88                 | 18.86                 |                              | 2.5      |
|                                      | 12      | 13        | 18.97                 | 18.95                 | 18.84                 |                              | 2.5      |
|                                      | 25      | 0         | 18.90                 | 18.80                 | 18.87                 |                              | 2.5      |

|                                             |                                                                                                                                                     |                                      |                                                                                       |                                        |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ELEMENT</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                           | <b>DUT Type:</b><br>Portable Handset | Page 95 of 305                                                                        |                                        |

**Table 9-65**  
**LTE Band 25 (PCS) Measured Plimit for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) – 3 MHz Bandwidth**

| LTE Band 25 (PCS)<br>3 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|--------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                           | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                      |         |           | 26055<br>(1851.5 MHz) | 26365<br>(1882.5 MHz) | 26675<br>(1913.5 MHz) |                              |          |
|                                      |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                 | 1       | 0         | 21.60                 | 21.18                 | 21.26                 | 0                            | 0        |
|                                      | 1       | 7         | 21.57                 | 21.27                 | 21.26                 |                              | 0        |
|                                      | 1       | 14        | 21.67                 | 21.31                 | 21.32                 |                              | 0        |
|                                      | 8       | 0         | 21.67                 | 21.36                 | 21.41                 | 0-1                          | 0        |
|                                      | 8       | 4         | 21.71                 | 21.43                 | 21.46                 |                              | 0        |
|                                      | 8       | 7         | 21.68                 | 21.46                 | 21.47                 |                              | 0        |
|                                      | 15      | 0         | 21.74                 | 21.38                 | 21.43                 |                              | 0        |
| 16QAM                                | 1       | 0         | 21.73                 | 21.36                 | 21.53                 | 0-1                          | 0        |
|                                      | 1       | 7         | 21.71                 | 21.42                 | 21.51                 |                              | 0        |
|                                      | 1       | 14        | 21.76                 | 21.54                 | 21.63                 |                              | 0        |
|                                      | 8       | 0         | 21.86                 | 21.50                 | 21.58                 | 0-2                          | 0        |
|                                      | 8       | 4         | 21.91                 | 21.55                 | 21.63                 |                              | 0        |
|                                      | 8       | 7         | 21.90                 | 21.60                 | 21.60                 |                              | 0        |
|                                      | 15      | 0         | 21.75                 | 21.44                 | 21.49                 |                              | 0        |
| 64QAM                                | 1       | 0         | 21.75                 | 21.57                 | 21.48                 | 0-2                          | 0        |
|                                      | 1       | 7         | 21.77                 | 21.67                 | 21.50                 |                              | 0        |
|                                      | 1       | 14        | 21.82                 | 21.68                 | 21.52                 |                              | 0        |
|                                      | 8       | 0         | 20.71                 | 20.53                 | 20.42                 | 0-3                          | 0.5      |
|                                      | 8       | 4         | 20.77                 | 20.59                 | 20.49                 |                              | 0.5      |
|                                      | 8       | 7         | 20.75                 | 20.58                 | 20.47                 |                              | 0.5      |
|                                      | 15      | 0         | 20.89                 | 20.44                 | 20.44                 |                              | 0.5      |
| 256QAM                               | 1       | 0         | 18.87                 | 18.59                 | 19.08                 | 0-5                          | 2.5      |
|                                      | 1       | 7         | 18.87                 | 18.69                 | 19.14                 |                              | 2.5      |
|                                      | 1       | 14        | 18.88                 | 18.73                 | 19.06                 |                              | 2.5      |
|                                      | 8       | 0         | 18.64                 | 18.95                 | 18.65                 |                              | 2.5      |
|                                      | 8       | 4         | 18.70                 | 18.95                 | 18.72                 |                              | 2.5      |
|                                      | 8       | 7         | 18.67                 | 19.01                 | 18.70                 |                              | 2.5      |
|                                      | 15      | 0         | 18.81                 | 18.93                 | 18.57                 |                              | 2.5      |

|                                             |                                                                                                                                                          |                                      |                                                                                       |                                        |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the HIOKII group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                | <b>DUT Type:</b><br>Portable Handset | Page 96 of 305                                                                        |                                        |



**Table 9-66**  
**LTE Band 25 (PCS) Measured Plimit for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) – 1.4 MHz Bandwidth**

| LTE Band 25 (PCS)<br>1.4 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|----------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                             | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                        |         |           | 26047<br>(1850.7 MHz) | 26365<br>(1882.5 MHz) | 26683<br>(1914.3 MHz) |                              |          |
|                                        |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                   | 1       | 0         | 21.58                 | 21.12                 | 21.36                 | 0                            | 0        |
|                                        | 1       | 2         | 21.58                 | 21.28                 | 21.41                 |                              | 0        |
|                                        | 1       | 5         | 21.58                 | 21.23                 | 21.42                 |                              | 0        |
|                                        | 3       | 0         | 21.56                 | 21.21                 | 21.27                 |                              | 0        |
|                                        | 3       | 2         | 21.63                 | 21.32                 | 21.29                 |                              | 0        |
|                                        | 3       | 3         | 21.62                 | 21.32                 | 21.30                 |                              | 0        |
|                                        | 6       | 0         | 21.65                 | 21.29                 | 21.32                 | 0-1                          | 0        |
| 16QAM                                  | 1       | 0         | 21.65                 | 21.52                 | 21.48                 | 0-1                          | 0        |
|                                        | 1       | 2         | 21.71                 | 21.63                 | 21.56                 |                              | 0        |
|                                        | 1       | 5         | 21.69                 | 21.59                 | 21.50                 |                              | 0        |
|                                        | 3       | 0         | 21.64                 | 21.54                 | 21.74                 |                              | 0        |
|                                        | 3       | 2         | 21.70                 | 21.65                 | 21.82                 |                              | 0        |
|                                        | 3       | 3         | 21.67                 | 21.63                 | 21.77                 |                              | 0        |
|                                        | 6       | 0         | 21.71                 | 21.33                 | 21.38                 | 0-2                          | 0        |
| 64QAM                                  | 1       | 0         | 21.72                 | 21.45                 | 21.60                 | 0-2                          | 0        |
|                                        | 1       | 2         | 21.84                 | 21.58                 | 21.73                 |                              | 0        |
|                                        | 1       | 5         | 21.71                 | 21.58                 | 21.60                 |                              | 0        |
|                                        | 3       | 0         | 21.90                 | 21.39                 | 21.43                 |                              | 0        |
|                                        | 3       | 2         | 21.95                 | 21.51                 | 21.50                 |                              | 0        |
|                                        | 3       | 3         | 21.92                 | 21.42                 | 21.43                 |                              | 0        |
|                                        | 6       | 0         | 20.86                 | 20.42                 | 20.46                 | 0-3                          | 0.5      |
| 256QAM                                 | 1       | 0         | 18.89                 | 18.79                 | 18.51                 | 0-5                          | 2.5      |
|                                        | 1       | 2         | 19.01                 | 18.90                 | 18.56                 |                              | 2.5      |
|                                        | 1       | 5         | 18.90                 | 18.91                 | 18.50                 |                              | 2.5      |
|                                        | 3       | 0         | 18.96                 | 18.82                 | 18.77                 |                              | 2.5      |
|                                        | 3       | 2         | 18.99                 | 18.95                 | 18.83                 |                              | 2.5      |
|                                        | 3       | 3         | 18.95                 | 18.89                 | 18.76                 |                              | 2.5      |
|                                        | 6       | 0         | 18.93                 | 18.70                 | 18.85                 |                              | 2.5      |

|                                      |                                                                                                                                                                                                                                                  |                               |                                        |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of the</small>  <b>SAMSUNG</b> | <b>SAR EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                               | DUT Type:<br>Portable Handset | Page 97 of 305                         |

## 9.4.9

## LTE Band 30

Table 9-67

LTE Band 30 Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 10 MHz Bandwidth

| LTE Band 30<br>10 MHz Bandwidth |         |           |                          |                              |          |
|---------------------------------|---------|-----------|--------------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Mid Channel              | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 27710<br>(2310.0 MHz)    |                              |          |
|                                 |         |           | Conducted Power<br>[dBm] |                              |          |
| QPSK                            | 1       | 0         | 23.51                    | 0                            | 0        |
|                                 | 1       | 25        | 23.55                    |                              | 0        |
|                                 | 1       | 49        | <b>23.58</b>             |                              | 0        |
|                                 | 25      | 0         | 22.57                    | 0-1                          | 1        |
|                                 | 25      | 12        | <b>22.63</b>             |                              | 1        |
|                                 | 25      | 25        | 22.47                    |                              | 1        |
|                                 | 50      | 0         | 22.60                    |                              | 1        |
| 16QAM                           | 1       | 0         | 23.00                    | 0-1                          | 1        |
|                                 | 1       | 25        | 22.71                    |                              | 1        |
|                                 | 1       | 49        | 22.91                    |                              | 1        |
|                                 | 25      | 0         | 21.59                    | 0-2                          | 2        |
|                                 | 25      | 12        | 21.66                    |                              | 2        |
|                                 | 25      | 25        | 21.52                    |                              | 2        |
|                                 | 50      | 0         | 21.57                    |                              | 2        |
| 64QAM                           | 1       | 0         | 21.52                    | 0-2                          | 2        |
|                                 | 1       | 25        | 21.80                    |                              | 2        |
|                                 | 1       | 49        | 21.64                    |                              | 2        |
|                                 | 25      | 0         | 20.18                    | 0-3                          | 3        |
|                                 | 25      | 12        | 20.37                    |                              | 3        |
|                                 | 25      | 25        | 20.25                    |                              | 3        |
|                                 | 50      | 0         | 20.12                    |                              | 3        |
| 256QAM                          | 1       | 0         | 18.63                    | 0-5                          | 5        |
|                                 | 1       | 25        | 18.68                    |                              | 5        |
|                                 | 1       | 49        | 18.42                    |                              | 5        |
|                                 | 25      | 0         | 18.66                    |                              | 5        |
|                                 | 25      | 12        | 18.70                    |                              | 5        |
|                                 | 25      | 25        | 18.56                    |                              | 5        |
|                                 | 50      | 0         | 18.64                    |                              | 5        |

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 98 of 305                         |

Table 9-68

LTE Band 30 Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) – 5 MHz Bandwidth

| LTE Band 30<br>5 MHz Bandwidth |         |           |                          |                              |          |
|--------------------------------|---------|-----------|--------------------------|------------------------------|----------|
| Modulation                     | RB Size | RB Offset | Mid Channel              | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                |         |           | 27710<br>(2310.0 MHz)    |                              |          |
|                                |         |           | Conducted Power<br>[dBm] |                              |          |
| QPSK                           | 1       | 0         | 23.62                    | 0                            | 0        |
|                                | 1       | 12        | 23.77                    |                              | 0        |
|                                | 1       | 24        | 23.80                    |                              | 0        |
|                                | 12      | 0         | 22.98                    | 0-1                          | 1        |
|                                | 12      | 6         | 23.00                    |                              | 1        |
|                                | 12      | 13        | 22.97                    |                              | 1        |
|                                | 25      | 0         | 22.87                    |                              | 1        |
| 16QAM                          | 1       | 0         | 22.88                    | 0-1                          | 1        |
|                                | 1       | 12        | 22.99                    |                              | 1        |
|                                | 1       | 24        | 22.96                    |                              | 1        |
|                                | 12      | 0         | 21.87                    | 0-2                          | 2        |
|                                | 12      | 6         | 21.86                    |                              | 2        |
|                                | 12      | 13        | 21.82                    |                              | 2        |
|                                | 25      | 0         | 21.97                    |                              | 2        |
| 64QAM                          | 1       | 0         | 21.50                    | 0-2                          | 2        |
|                                | 1       | 12        | 21.48                    |                              | 2        |
|                                | 1       | 24        | 21.68                    |                              | 2        |
|                                | 12      | 0         | 20.38                    | 0-3                          | 3        |
|                                | 12      | 6         | 20.51                    |                              | 3        |
|                                | 12      | 13        | 20.50                    |                              | 3        |
|                                | 25      | 0         | 20.40                    |                              | 3        |
| 256QAM                         | 1       | 0         | 18.87                    | 0-5                          | 5        |
|                                | 1       | 12        | 18.88                    |                              | 5        |
|                                | 1       | 24        | 18.78                    |                              | 5        |
|                                | 12      | 0         | 18.80                    |                              | 5        |
|                                | 12      | 6         | 18.79                    |                              | 5        |
|                                | 12      | 13        | 18.74                    |                              | 5        |
|                                | 25      | 0         | 18.71                    |                              | 5        |

Note: LTE Band 30 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 99 of 305                         |

**Table 9-69**  
**LTE Band 30 Measured  $P_{limit}$  for DSI = 3 (Hotspot mode) - 10 MHz Bandwidth**

| LTE Band 30<br>10 MHz Bandwidth |         |           |                          |                              |          |
|---------------------------------|---------|-----------|--------------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Mid Channel              | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 27710<br>(2310.0 MHz)    |                              |          |
|                                 |         |           | Conducted Power<br>[dBm] |                              |          |
| QPSK                            | 1       | 0         | <b>19.44</b>             | 0                            | 0        |
|                                 | 1       | 25        | 19.26                    |                              | 0        |
|                                 | 1       | 49        | 19.28                    |                              | 0        |
|                                 | 25      | 0         | 19.54                    | 0-1                          | 0        |
|                                 | 25      | 12        | <b>19.58</b>             |                              | 0        |
|                                 | 25      | 25        | 19.40                    |                              | 0        |
|                                 | 50      | 0         | 19.42                    |                              | 0        |
| 16QAM                           | 1       | 0         | 19.40                    | 0-1                          | 0        |
|                                 | 1       | 25        | 19.18                    |                              | 0        |
|                                 | 1       | 49        | 19.18                    |                              | 0        |
|                                 | 25      | 0         | 19.62                    | 0-2                          | 0        |
|                                 | 25      | 12        | 19.71                    |                              | 0        |
|                                 | 25      | 25        | 19.46                    |                              | 0        |
|                                 | 50      | 0         | 19.53                    |                              | 0        |
| 64QAM                           | 1       | 0         | 19.66                    | 0-2                          | 0        |
|                                 | 1       | 25        | 19.53                    |                              | 0        |
|                                 | 1       | 49        | 19.57                    |                              | 0        |
|                                 | 25      | 0         | 19.64                    | 0-3                          | 0        |
|                                 | 25      | 12        | 19.66                    |                              | 0        |
|                                 | 25      | 25        | 19.45                    |                              | 0        |
|                                 | 50      | 0         | 19.49                    |                              | 0        |
| 256QAM                          | 1       | 0         | 18.70                    | 0-5                          | 0.5      |
|                                 | 1       | 25        | 18.69                    |                              | 0.5      |
|                                 | 1       | 49        | 18.51                    |                              | 0.5      |
|                                 | 25      | 0         | 19.12                    |                              | 0.5      |
|                                 | 25      | 12        | 19.19                    |                              | 0.5      |
|                                 | 25      | 25        | 19.01                    |                              | 0.5      |
|                                 | 50      | 0         | 19.09                    |                              | 0.5      |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 100 of 305                                                                       |                                        |

**Table 9-70**  
**LTE Band 30 Measured  $P_{limit}$  for DSI = 3 (Hotspot mode) - 5 MHz Bandwidth**

| LTE Band 30<br>5 MHz Bandwidth |         |           |                          |                              |          |
|--------------------------------|---------|-----------|--------------------------|------------------------------|----------|
| Modulation                     | RB Size | RB Offset | Mid Channel              | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                |         |           | 27710<br>(2310.0 MHz)    |                              |          |
|                                |         |           | Conducted Power<br>[dBm] |                              |          |
| QPSK                           | 1       | 0         | 19.60                    | 0                            | 0        |
|                                | 1       | 12        | 19.65                    |                              | 0        |
|                                | 1       | 24        | 19.48                    |                              | 0        |
|                                | 12      | 0         | 19.77                    | 0-1                          | 0        |
|                                | 12      | 6         | 19.73                    |                              | 0        |
|                                | 12      | 13        | 19.69                    |                              | 0        |
|                                | 25      | 0         | 19.74                    |                              | 0        |
| 16QAM                          | 1       | 0         | 19.27                    | 0-1                          | 0        |
|                                | 1       | 12        | 19.36                    |                              | 0        |
|                                | 1       | 24        | 19.15                    |                              | 0        |
|                                | 12      | 0         | 19.45                    | 0-2                          | 0        |
|                                | 12      | 6         | 19.39                    |                              | 0        |
|                                | 12      | 13        | 19.38                    |                              | 0        |
|                                | 25      | 0         | 19.28                    |                              | 0        |
| 64QAM                          | 1       | 0         | 19.24                    | 0-2                          | 0        |
|                                | 1       | 12        | 19.22                    |                              | 0        |
|                                | 1       | 24        | 19.09                    |                              | 0        |
|                                | 12      | 0         | 19.09                    | 0-3                          | 0        |
|                                | 12      | 6         | 19.10                    |                              | 0        |
|                                | 12      | 13        | 19.03                    |                              | 0        |
|                                | 25      | 0         | 19.11                    |                              | 0        |
| 256QAM                         | 1       | 0         | 18.65                    | 0-5                          | 0.5      |
|                                | 1       | 12        | 18.62                    |                              | 0.5      |
|                                | 1       | 24        | 18.48                    |                              | 0.5      |
|                                | 12      | 0         | 19.05                    |                              | 0.5      |
|                                | 12      | 6         | 19.11                    |                              | 0.5      |
|                                | 12      | 13        | 18.88                    |                              | 0.5      |
|                                | 25      | 0         | 18.89                    |                              | 0.5      |

Note: LTE Band 30 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 101 of 305                                                                       |                                        |

## 9.4.10

## LTE Band 7

**Table 9-71**  
**LTE Band 7 Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 20 MHz Bandwidth**

| LTE Band 7<br>20 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|--------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                     | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                |         |           | 20850<br>(2510.0 MHz) | 21100<br>(2535.0 MHz) | 21350<br>(2560.0 MHz) |                              |          |
|                                |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                           | 1       | 0         | 23.17                 | 22.91                 | 22.85                 | 0                            | 0        |
|                                | 1       | 50        | 23.11                 | 22.85                 | 22.73                 |                              | 0        |
|                                | 1       | 99        | 23.10                 | 22.76                 | 22.83                 |                              | 0        |
|                                | 50      | 0         | 22.22                 | 22.06                 | 21.82                 | 0-1                          | 1        |
|                                | 50      | 25        | 22.21                 | 22.08                 | 21.85                 |                              | 1        |
|                                | 50      | 50        | 22.11                 | 21.96                 | 21.92                 |                              | 1        |
|                                | 100     | 0         | 22.15                 | 22.02                 | 21.80                 |                              | 1        |
| 16QAM                          | 1       | 0         | 22.67                 | 22.63                 | 22.00                 | 0-1                          | 1        |
|                                | 1       | 50        | 22.57                 | 22.51                 | 22.00                 |                              | 1        |
|                                | 1       | 99        | 22.53                 | 22.43                 | 22.06                 |                              | 1        |
|                                | 50      | 0         | 21.23                 | 21.09                 | 20.90                 | 0-2                          | 2        |
|                                | 50      | 25        | 21.22                 | 21.06                 | 20.88                 |                              | 2        |
|                                | 50      | 50        | 21.14                 | 20.97                 | 21.02                 |                              | 2        |
|                                | 100     | 0         | 21.14                 | 21.04                 | 20.80                 |                              | 2        |
| 64QAM                          | 1       | 0         | 21.21                 | 20.97                 | 20.99                 | 0-2                          | 2        |
|                                | 1       | 50        | 21.54                 | 20.88                 | 21.04                 |                              | 2        |
|                                | 1       | 99        | 21.43                 | 20.77                 | 21.04                 |                              | 2        |
|                                | 50      | 0         | 20.25                 | 20.13                 | 19.93                 | 0-3                          | 3        |
|                                | 50      | 25        | 20.25                 | 20.12                 | 19.95                 |                              | 3        |
|                                | 50      | 50        | 20.14                 | 20.00                 | 20.03                 |                              | 3        |
|                                | 100     | 0         | 20.20                 | 20.04                 | 19.85                 |                              | 3        |
| 256QAM                         | 1       | 0         | 18.35                 | 17.95                 | 18.21                 | 0-5                          | 5        |
|                                | 1       | 50        | 18.64                 | 18.15                 | 18.40                 |                              | 5        |
|                                | 1       | 99        | 18.29                 | 17.85                 | 18.00                 |                              | 5        |
|                                | 50      | 0         | 18.18                 | 17.99                 | 17.84                 |                              | 5        |
|                                | 50      | 25        | 18.28                 | 18.08                 | 17.90                 |                              | 5        |
|                                | 50      | 50        | 18.10                 | 17.84                 | 17.84                 |                              | 5        |
|                                | 100     | 0         | 18.22                 | 18.02                 | 17.86                 |                              | 5        |

|                                      |                                                                                                                                                                                                                |                               |                                        |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                             | DUT Type:<br>Portable Handset | Page 102 of 305                        |

**Table 9-72**  
**LTE Band 7 Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 15 MHz Bandwidth**

| LTE Band 7<br>15 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|--------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                     | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                |         |           | 20825<br>(2507.5 MHz) | 21100<br>(2535.0 MHz) | 21375<br>(2562.5 MHz) |                              |          |
|                                |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                           | 1       | 0         | 23.18                 | 23.04                 | 22.79                 | 0                            | 0        |
|                                | 1       | 36        | 23.18                 | 22.97                 | 22.70                 |                              | 0        |
|                                | 1       | 74        | 22.82                 | 22.91                 | 22.75                 |                              | 0        |
|                                | 36      | 0         | 22.30                 | 22.13                 | 21.81                 | 0-1                          | 1        |
|                                | 36      | 18        | 22.29                 | 22.06                 | 21.84                 |                              | 1        |
|                                | 36      | 37        | 22.19                 | 22.00                 | 21.95                 |                              | 1        |
|                                | 75      | 0         | 22.18                 | 21.97                 | 21.82                 |                              | 1        |
| 16QAM                          | 1       | 0         | 22.36                 | 22.62                 | 22.14                 | 0-1                          | 1        |
|                                | 1       | 36        | 22.36                 | 22.50                 | 22.10                 |                              | 1        |
|                                | 1       | 74        | 22.11                 | 22.41                 | 22.29                 |                              | 1        |
|                                | 36      | 0         | 21.35                 | 21.20                 | 20.85                 | 0-2                          | 2        |
|                                | 36      | 18        | 21.27                 | 21.12                 | 20.92                 |                              | 2        |
|                                | 36      | 37        | 21.17                 | 21.14                 | 20.92                 |                              | 2        |
|                                | 75      | 0         | 21.15                 | 20.96                 | 20.80                 |                              | 2        |
| 64QAM                          | 1       | 0         | 20.88                 | 20.94                 | 21.36                 | 0-2                          | 2        |
|                                | 1       | 36        | 21.04                 | 21.21                 | 21.22                 |                              | 2        |
|                                | 1       | 74        | 20.97                 | 21.44                 | 20.88                 |                              | 2        |
|                                | 36      | 0         | 19.98                 | 20.11                 | 20.31                 | 0-3                          | 3        |
|                                | 36      | 18        | 20.04                 | 20.30                 | 20.25                 |                              | 3        |
|                                | 36      | 37        | 19.88                 | 20.40                 | 20.01                 |                              | 3        |
|                                | 75      | 0         | 19.91                 | 20.26                 | 20.16                 |                              | 3        |
| 256QAM                         | 1       | 0         | 18.54                 | 18.05                 | 18.14                 | 0-5                          | 5        |
|                                | 1       | 36        | 18.61                 | 18.06                 | 18.15                 |                              | 5        |
|                                | 1       | 74        | 18.50                 | 18.06                 | 18.17                 |                              | 5        |
|                                | 36      | 0         | 18.17                 | 18.02                 | 17.87                 |                              | 5        |
|                                | 36      | 18        | 18.18                 | 17.93                 | 17.83                 |                              | 5        |
|                                | 36      | 37        | 18.13                 | 17.87                 | 17.81                 |                              | 5        |
|                                | 75      | 0         | 18.14                 | 17.94                 | 17.83                 |                              | 5        |

|                                      |                                                                                                                                                    |                               |                                                                                       |                                 |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of ROHM Group</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01_A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                 | DUT Type:<br>Portable Handset |                                                                                       | Page 103 of 305                 |

**Table 9-73**  
**LTE Band 7 Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 10 MHz Bandwidth**

| LTE Band 7<br>10 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|--------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                     | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                |         |           | 20800<br>(2505.0 MHz) | 21100<br>(2535.0 MHz) | 21400<br>(2565.0 MHz) |                              |          |
|                                |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                           | 1       | 0         | 22.83                 | 23.18                 | 22.90                 | 0                            | 0        |
|                                | 1       | 25        | 23.19                 | 23.06                 | 22.82                 |                              | 0        |
|                                | 1       | 49        | 23.17                 | 23.13                 | 22.83                 |                              | 0        |
|                                | 25      | 0         | 22.24                 | 22.10                 | 21.85                 | 0-1                          | 1        |
|                                | 25      | 12        | 22.25                 | 22.07                 | 21.96                 |                              | 1        |
|                                | 25      | 25        | 22.22                 | 21.99                 | 21.92                 |                              | 1        |
|                                | 50      | 0         | 22.20                 | 21.98                 | 21.79                 |                              | 1        |
| 16QAM                          | 1       | 0         | 22.24                 | 22.52                 | 22.16                 | 0-1                          | 1        |
|                                | 1       | 25        | 22.67                 | 22.45                 | 22.26                 |                              | 1        |
|                                | 1       | 49        | 22.71                 | 22.52                 | 22.27                 |                              | 1        |
|                                | 25      | 0         | 21.26                 | 21.09                 | 20.85                 | 0-2                          | 2        |
|                                | 25      | 12        | 21.25                 | 21.12                 | 20.95                 |                              | 2        |
|                                | 25      | 25        | 21.15                 | 20.98                 | 20.95                 |                              | 2        |
|                                | 50      | 0         | 21.20                 | 21.01                 | 20.79                 |                              | 2        |
| 64QAM                          | 1       | 0         | 21.05                 | 21.08                 | 21.36                 | 0-2                          | 2        |
|                                | 1       | 25        | 21.33                 | 21.30                 | 21.11                 |                              | 2        |
|                                | 1       | 49        | 21.44                 | 21.54                 | 20.92                 |                              | 2        |
|                                | 25      | 0         | 20.19                 | 20.16                 | 20.20                 | 0-3                          | 3        |
|                                | 25      | 12        | 20.08                 | 20.32                 | 20.09                 |                              | 3        |
|                                | 25      | 25        | 20.00                 | 20.45                 | 19.95                 |                              | 3        |
|                                | 50      | 0         | 19.97                 | 20.22                 | 20.01                 |                              | 3        |
| 256QAM                         | 1       | 0         | 18.50                 | 18.18                 | 18.12                 | 0-5                          | 5        |
|                                | 1       | 25        | 18.56                 | 18.32                 | 18.36                 |                              | 5        |
|                                | 1       | 49        | 18.32                 | 18.14                 | 17.97                 |                              | 5        |
|                                | 25      | 0         | 18.25                 | 18.28                 | 17.96                 |                              | 5        |
|                                | 25      | 12        | 18.38                 | 18.23                 | 17.89                 |                              | 5        |
|                                | 25      | 25        | 18.35                 | 18.26                 | 17.90                 |                              | 5        |
|                                | 50      | 0         | 18.34                 | 18.21                 | 17.87                 |                              | 5        |

|                                      |                                                                                                                                                        |                               |                                                                                       |                                 |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                     | DUT Type:<br>Portable Handset | Page 104 of 305                                                                       |                                 |



**Table 9-74**  
**LTE Band 7 Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 5 MHz Bandwidth**

| LTE Band 7<br>5 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|-------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                    | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                               |         |           | 20775<br>(2502.5 MHz) | 21100<br>(2535.0 MHz) | 21425<br>(2567.5 MHz) |                              |          |
|                               |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                          | 1       | 0         | 23.18                 | 23.39                 | 22.93                 | 0                            | 0        |
|                               | 1       | 12        | 23.42                 | 23.30                 | 22.98                 |                              | 0        |
|                               | 1       | 24        | 23.59                 | 23.25                 | 22.92                 |                              | 0        |
|                               | 12      | 0         | 22.41                 | 22.51                 | 22.05                 | 0-1                          | 1        |
|                               | 12      | 6         | 22.57                 | 22.48                 | 22.09                 |                              | 1        |
|                               | 12      | 13        | 22.67                 | 22.42                 | 22.01                 |                              | 1        |
|                               | 25      | 0         | 22.53                 | 22.45                 | 22.04                 |                              | 1        |
| 16QAM                         | 1       | 0         | 22.71                 | 22.75                 | 22.26                 | 0-1                          | 1        |
|                               | 1       | 12        | 22.66                 | 22.74                 | 22.16                 |                              | 1        |
|                               | 1       | 24        | 22.67                 | 22.63                 | 22.25                 |                              | 1        |
|                               | 12      | 0         | 21.52                 | 21.56                 | 21.37                 | 0-2                          | 2        |
|                               | 12      | 6         | 21.67                 | 21.48                 | 21.45                 |                              | 2        |
|                               | 12      | 13        | 21.81                 | 21.44                 | 21.37                 |                              | 2        |
|                               | 25      | 0         | 21.60                 | 21.37                 | 21.34                 |                              | 2        |
| 64QAM                         | 1       | 0         | 21.22                 | 21.12                 | 21.36                 | 0-2                          | 2        |
|                               | 1       | 12        | 21.15                 | 21.23                 | 21.21                 |                              | 2        |
|                               | 1       | 24        | 21.24                 | 21.37                 | 21.16                 |                              | 2        |
|                               | 12      | 0         | 20.17                 | 20.29                 | 20.00                 | 0-3                          | 3        |
|                               | 12      | 6         | 20.15                 | 20.35                 | 19.98                 |                              | 3        |
|                               | 12      | 13        | 20.18                 | 20.43                 | 19.92                 |                              | 3        |
|                               | 25      | 0         | 20.08                 | 20.26                 | 19.81                 |                              | 3        |
| 256QAM                        | 1       | 0         | 18.61                 | 18.19                 | 18.34                 | 0-5                          | 5        |
|                               | 1       | 12        | 18.55                 | 18.18                 | 18.39                 |                              | 5        |
|                               | 1       | 24        | 18.57                 | 18.04                 | 18.27                 |                              | 5        |
|                               | 12      | 0         | 18.32                 | 18.16                 | 17.92                 |                              | 5        |
|                               | 12      | 6         | 18.36                 | 18.13                 | 17.95                 |                              | 5        |
|                               | 12      | 13        | 18.28                 | 18.13                 | 17.92                 |                              | 5        |
|                               | 25      | 0         | 18.29                 | 18.01                 | 17.87                 |                              | 5        |

|                                      |                                                                                                                                                                                                                                                                                                  |                               |                                 |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   | <div><b>PCTEST</b><br/><small>Proud to be part of the element</small></div> <div>SAR EVALUATION REPORT</div> <div></div> |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                               | DUT Type:<br>Portable Handset | Page 105 of 305                 |

Table 9-75

LTE Band 7 Measured  $P_{limit}$  for DSI = 3 (Hotspot mode), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 20 MHz Bandwidth

| LTE Band 7<br>20 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|--------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                     | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                |         |           | 20850<br>(2510.0 MHz) | 21100<br>(2535.0 MHz) | 21350<br>(2560.0 MHz) |                              |          |
|                                |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                           | 1       | 0         | 19.60                 | 19.40                 | 19.31                 | 0                            | 0        |
|                                | 1       | 50        | 19.57                 | 19.44                 | 19.27                 |                              | 0        |
|                                | 1       | 99        | 19.58                 | 19.31                 | 19.28                 |                              | 0        |
|                                | 50      | 0         | 19.56                 | 19.47                 | 19.28                 | 0-1                          | 0        |
|                                | 50      | 25        | 19.58                 | 19.45                 | 19.33                 |                              | 0        |
|                                | 50      | 50        | 19.61                 | 19.36                 | 19.30                 |                              | 0        |
|                                | 100     | 0         | 19.59                 | 19.34                 | 19.35                 | 0                            |          |
| 16QAM                          | 1       | 0         | 19.59                 | 19.68                 | 19.32                 | 0-1                          | 0        |
|                                | 1       | 50        | 19.58                 | 19.69                 | 19.29                 |                              | 0        |
|                                | 1       | 99        | 19.55                 | 19.56                 | 19.28                 |                              | 0        |
|                                | 50      | 0         | 19.58                 | 19.38                 | 19.33                 | 0-2                          | 0        |
|                                | 50      | 25        | 19.56                 | 19.40                 | 19.34                 |                              | 0        |
|                                | 50      | 50        | 19.60                 | 19.35                 | 19.33                 |                              | 0        |
|                                | 100     | 0         | 19.59                 | 19.33                 | 19.33                 | 0                            |          |
| 64QAM                          | 1       | 0         | 19.59                 | 19.63                 | 19.31                 | 0-2                          | 0        |
|                                | 1       | 50        | 19.59                 | 19.63                 | 19.28                 |                              | 0        |
|                                | 1       | 99        | 19.62                 | 19.43                 | 19.35                 |                              | 0        |
|                                | 50      | 0         | 19.60                 | 19.55                 | 19.31                 | 0-3                          | 0        |
|                                | 50      | 25        | 19.57                 | 19.51                 | 19.33                 |                              | 0        |
|                                | 50      | 50        | 19.58                 | 19.40                 | 19.32                 |                              | 0        |
|                                | 100     | 0         | 19.59                 | 19.52                 | 19.28                 | 0                            |          |
| 256QAM                         | 1       | 0         | 18.50                 | 18.51                 | 18.52                 | 0-5                          | 0.5      |
|                                | 1       | 50        | 18.88                 | 18.61                 | 18.54                 |                              | 0.5      |
|                                | 1       | 99        | 18.50                 | 18.50                 | 18.50                 |                              | 0.5      |
|                                | 50      | 0         | 18.65                 | 18.52                 | 18.52                 |                              | 0.5      |
|                                | 50      | 25        | 18.69                 | 18.53                 | 18.50                 |                              | 0.5      |
|                                | 50      | 50        | 18.58                 | 18.50                 | 18.51                 |                              | 0.5      |
|                                | 100     | 0         | 18.55                 | 18.52                 | 18.53                 |                              | 0.5      |

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 106 of 305                        |

Table 9-76

LTE Band 7 Measured  $P_{limit}$  for DSI = 3 (Hotspot mode), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 15 MHz Bandwidth

| LTE Band 7<br>15 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|--------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                     | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                |         |           | 20825<br>(2507.5 MHz) | 21100<br>(2535.0 MHz) | 21375<br>(2562.5 MHz) |                              |          |
|                                |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                           | 1       | 0         | 19.41                 | 19.06                 | 18.93                 | 0                            | 0        |
|                                | 1       | 36        | 19.44                 | 19.09                 | 18.94                 |                              | 0        |
|                                | 1       | 74        | 19.35                 | 18.98                 | 18.93                 |                              | 0        |
|                                | 36      | 0         | 19.50                 | 19.22                 | 19.02                 | 0-1                          | 0        |
|                                | 36      | 18        | 19.50                 | 19.20                 | 19.02                 |                              | 0        |
|                                | 36      | 37        | 19.37                 | 19.15                 | 19.11                 |                              | 0        |
|                                | 75      | 0         | 19.35                 | 19.17                 | 18.99                 |                              | 0        |
| 16QAM                          | 1       | 0         | 19.92                 | 19.73                 | 19.54                 | 0-1                          | 0        |
|                                | 1       | 36        | 19.95                 | 19.76                 | 19.53                 |                              | 0        |
|                                | 1       | 74        | 19.89                 | 19.66                 | 19.58                 |                              | 0        |
|                                | 36      | 0         | 19.55                 | 19.26                 | 19.10                 | 0-2                          | 0        |
|                                | 36      | 18        | 19.59                 | 19.20                 | 19.13                 |                              | 0        |
|                                | 36      | 37        | 19.45                 | 19.17                 | 19.20                 |                              | 0        |
|                                | 75      | 0         | 19.38                 | 19.17                 | 19.03                 |                              | 0        |
| 64QAM                          | 1       | 0         | 19.94                 | 19.65                 | 19.41                 | 0-2                          | 0        |
|                                | 1       | 36        | 19.98                 | 19.63                 | 19.47                 |                              | 0        |
|                                | 1       | 74        | 19.81                 | 19.49                 | 19.50                 |                              | 0        |
|                                | 36      | 0         | 19.55                 | 19.30                 | 19.08                 | 0-3                          | 0        |
|                                | 36      | 18        | 19.61                 | 19.25                 | 19.10                 |                              | 0        |
|                                | 36      | 37        | 19.44                 | 19.19                 | 19.12                 |                              | 0        |
|                                | 75      | 0         | 19.47                 | 19.21                 | 19.04                 |                              | 0        |
| 256QAM                         | 1       | 0         | 18.64                 | 18.52                 | 18.62                 | 0-5                          | 0.5      |
|                                | 1       | 36        | 18.90                 | 18.63                 | 18.81                 |                              | 0.5      |
|                                | 1       | 74        | 18.66                 | 18.63                 | 18.70                 |                              | 0.5      |
|                                | 36      | 0         | 18.50                 | 18.55                 | 18.47                 |                              | 0.5      |
|                                | 36      | 18        | 18.62                 | 18.54                 | 18.53                 |                              | 0.5      |
|                                | 36      | 37        | 18.77                 | 18.65                 | 18.55                 |                              | 0.5      |
|                                | 75      | 0         | 18.61                 | 18.66                 | 18.50                 |                              | 0.5      |

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Table 9-77

LTE Band 7 Measured  $P_{limit}$  for DSI = 3 (Hotspot mode), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 10 MHz Bandwidth

| LTE Band 7<br>10 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|--------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                     | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                |         |           | 20800<br>(2505.0 MHz) | 21100<br>(2535.0 MHz) | 21400<br>(2565.0 MHz) |                              |          |
|                                |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                           | 1       | 0         | 19.39                 | 19.21                 | 19.14                 | 0                            | 0        |
|                                | 1       | 25        | 19.33                 | 19.17                 | 19.08                 |                              | 0        |
|                                | 1       | 49        | 19.34                 | 19.18                 | 19.08                 |                              | 0        |
|                                | 25      | 0         | 19.49                 | 19.28                 | 19.01                 | 0-1                          | 0        |
|                                | 25      | 12        | 19.44                 | 19.21                 | 19.15                 |                              | 0        |
|                                | 25      | 25        | 19.42                 | 19.25                 | 19.10                 |                              | 0        |
|                                | 50      | 0         | 19.40                 | 19.18                 | 18.97                 |                              | 0        |
| 16QAM                          | 1       | 0         | 19.86                 | 19.83                 | 19.67                 | 0-1                          | 0        |
|                                | 1       | 25        | 19.94                 | 19.73                 | 19.71                 |                              | 0        |
|                                | 1       | 49        | 19.83                 | 19.66                 | 19.74                 |                              | 0        |
|                                | 25      | 0         | 19.59                 | 19.28                 | 19.10                 | 0-2                          | 0        |
|                                | 25      | 12        | 19.52                 | 19.18                 | 19.18                 |                              | 0        |
|                                | 25      | 25        | 19.48                 | 19.24                 | 19.12                 |                              | 0        |
|                                | 50      | 0         | 19.42                 | 19.16                 | 19.02                 |                              | 0        |
| 64QAM                          | 1       | 0         | 19.94                 | 19.79                 | 19.69                 | 0-2                          | 0        |
|                                | 1       | 25        | 19.93                 | 19.75                 | 19.75                 |                              | 0        |
|                                | 1       | 49        | 19.85                 | 19.70                 | 19.72                 |                              | 0        |
|                                | 25      | 0         | 19.56                 | 19.32                 | 19.06                 | 0-3                          | 0        |
|                                | 25      | 12        | 19.44                 | 19.31                 | 19.13                 |                              | 0        |
|                                | 25      | 25        | 19.44                 | 19.29                 | 19.11                 |                              | 0        |
|                                | 50      | 0         | 19.41                 | 19.25                 | 19.02                 |                              | 0        |
| 256QAM                         | 1       | 0         | 18.63                 | 18.69                 | 18.50                 | 0-5                          | 0.5      |
|                                | 1       | 25        | 18.83                 | 18.75                 | 18.55                 |                              | 0.5      |
|                                | 1       | 49        | 18.55                 | 18.56                 | 18.63                 |                              | 0.5      |
|                                | 25      | 0         | 18.52                 | 18.46                 | 18.60                 |                              | 0.5      |
|                                | 25      | 12        | 18.53                 | 18.56                 | 18.64                 |                              | 0.5      |
|                                | 25      | 25        | 18.63                 | 18.58                 | 18.63                 |                              | 0.5      |
|                                | 50      | 0         | 18.66                 | 18.50                 | 18.60                 |                              | 0.5      |

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Table 9-78

LTE Band 7 Measured  $P_{limit}$  for DSI = 3 (Hotspot mode), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 5 MHz Bandwidth

| LTE Band 7<br>5 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|-------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                    | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                               |         |           | 20775<br>(2502.5 MHz) | 21100<br>(2535.0 MHz) | 21425<br>(2567.5 MHz) |                              |          |
|                               |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                          | 1       | 0         | 19.42                 | 19.16                 | 19.16                 | 0                            | 0        |
|                               | 1       | 12        | 19.43                 | 19.13                 | 19.00                 |                              | 0        |
|                               | 1       | 24        | 19.54                 | 19.08                 | 19.14                 |                              | 0        |
|                               | 12      | 0         | 19.47                 | 19.24                 | 19.10                 | 0-1                          | 0        |
|                               | 12      | 6         | 19.53                 | 19.22                 | 19.15                 |                              | 0        |
|                               | 12      | 13        | 19.46                 | 19.24                 | 19.11                 |                              | 0        |
|                               | 25      | 0         | 19.47                 | 19.23                 | 19.12                 |                              | 0        |
| 16QAM                         | 1       | 0         | 19.88                 | 19.82                 | 19.62                 | 0-1                          | 0        |
|                               | 1       | 12        | 19.85                 | 19.75                 | 19.60                 |                              | 0        |
|                               | 1       | 24        | 19.81                 | 19.75                 | 19.65                 |                              | 0        |
|                               | 12      | 0         | 19.59                 | 19.48                 | 19.16                 | 0-2                          | 0        |
|                               | 12      | 6         | 19.58                 | 19.42                 | 19.23                 |                              | 0        |
|                               | 12      | 13        | 19.53                 | 19.34                 | 19.14                 |                              | 0        |
|                               | 25      | 0         | 19.48                 | 19.33                 | 19.11                 |                              | 0        |
| 64QAM                         | 1       | 0         | 19.80                 | 19.82                 | 19.55                 | 0-2                          | 0        |
|                               | 1       | 12        | 19.90                 | 19.81                 | 19.50                 |                              | 0        |
|                               | 1       | 24        | 19.94                 | 19.74                 | 19.53                 |                              | 0        |
|                               | 12      | 0         | 19.48                 | 19.37                 | 19.20                 | 0-3                          | 0        |
|                               | 12      | 6         | 19.55                 | 19.37                 | 19.25                 |                              | 0        |
|                               | 12      | 13        | 19.51                 | 19.30                 | 19.21                 |                              | 0        |
|                               | 25      | 0         | 19.50                 | 19.28                 | 19.14                 |                              | 0        |
| 256QAM                        | 1       | 0         | 19.11                 | 18.63                 | 18.71                 | 0-5                          | 0.5      |
|                               | 1       | 12        | 19.13                 | 18.63                 | 18.74                 |                              | 0.5      |
|                               | 1       | 24        | 19.13                 | 18.53                 | 18.72                 |                              | 0.5      |
|                               | 12      | 0         | 18.50                 | 18.64                 | 18.51                 |                              | 0.5      |
|                               | 12      | 6         | 18.56                 | 18.60                 | 18.58                 |                              | 0.5      |
|                               | 12      | 13        | 18.50                 | 18.53                 | 18.49                 |                              | 0.5      |
|                               | 25      | 0         | 18.56                 | 18.55                 | 18.56                 |                              | 0.5      |

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 109 of 305                        |

# 9.4.11

# LTE Band 48

Table 9-79

LTE Band 48 Measured  $P_{max}$  for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode), or DSI = 4 (Earjack active) - 20 MHz Bandwidth

| LTE Band 48<br>20 MHz Bandwidth |         |           |                       |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 55340<br>(3560.0 MHz) | 55773<br>(3603.3 MHz) | 56207<br>(3646.7 MHz) | 56640<br>(3690.0 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 24.11                 | 24.29                 | 24.13                 | 24.17                 | 0                            | 0        |
|                                 | 1       | 50        | 24.39                 | 24.80                 | 24.49                 | 24.34                 |                              | 0        |
|                                 | 1       | 99        | 24.21                 | 24.26                 | 24.20                 | 23.98                 |                              | 0        |
|                                 | 50      | 0         | 23.39                 | 23.65                 | 23.51                 | 23.45                 | 0-1                          | 1        |
|                                 | 50      | 25        | 23.42                 | 23.66                 | 23.61                 | 23.43                 |                              | 1        |
|                                 | 50      | 50        | 23.45                 | 23.61                 | 23.51                 | 23.34                 |                              | 1        |
| 16QAM                           | 100     | 0         | 23.40                 | 23.60                 | 23.53                 | 23.39                 | 0-1                          | 1        |
|                                 | 1       | 0         | 23.16                 | 23.46                 | 23.19                 | 23.06                 |                              | 1        |
|                                 | 1       | 50        | 23.49                 | 23.61                 | 23.53                 | 23.14                 |                              | 1        |
|                                 | 1       | 99        | 23.33                 | 23.31                 | 23.15                 | 22.90                 | 0-2                          | 1        |
|                                 | 50      | 0         | 22.34                 | 22.57                 | 22.44                 | 22.46                 |                              | 2        |
|                                 | 50      | 25        | 22.49                 | 22.65                 | 22.55                 | 22.52                 |                              | 2        |
| 64QAM                           | 50      | 50        | 22.48                 | 22.52                 | 22.47                 | 22.31                 | 0-2                          | 2        |
|                                 | 100     | 0         | 22.31                 | 22.57                 | 22.46                 | 22.38                 |                              | 2        |
|                                 | 1       | 0         | 22.50                 | 22.80                 | 22.59                 | 22.05                 |                              | 0-2      |
|                                 | 1       | 50        | 22.90                 | 22.90                 | 22.88                 | 22.26                 | 2                            |          |
|                                 | 1       | 99        | 22.65                 | 22.60                 | 22.49                 | 22.02                 | 2                            |          |
|                                 | 256QAM  | 50        | 0                     | 21.47                 | 21.43                 | 21.43                 | 21.50                        | 0-3      |
| 50                              |         | 25        | 21.49                 | 21.61                 | 21.59                 | 21.46                 | 3                            |          |
| 50                              |         | 50        | 21.43                 | 21.57                 | 21.42                 | 21.32                 | 3                            |          |
| 100                             |         | 0         | 21.31                 | 21.51                 | 21.50                 | 21.38                 | 0-5                          | 3        |
| 1                               |         | 0         | 19.48                 | 19.23                 | 19.18                 | 19.40                 |                              | 5        |
| 1                               |         | 50        | 19.54                 | 19.24                 | 19.21                 | 19.51                 |                              | 5        |
| 256QAM                          | 1       | 99        | 19.41                 | 19.02                 | 19.04                 | 19.12                 | 0-5                          | 5        |
|                                 | 50      | 0         | 19.48                 | 19.53                 | 19.42                 | 19.46                 |                              | 5        |
|                                 | 50      | 25        | 19.50                 | 19.60                 | 19.66                 | 19.46                 |                              | 5        |
|                                 | 50      | 50        | 19.42                 | 19.50                 | 19.43                 | 19.33                 | 0-5                          | 5        |
|                                 | 100     | 0         | 19.37                 | 19.47                 | 19.51                 | 19.42                 |                              | 5        |

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 110 of 305                        |

Table 9-80

LTE Band 48 Measured  $P_{max}$  for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode), or DSI = 4 (Earjack active) -  
15 MHz Bandwidth

| LTE Band 48<br>15 MHz Bandwidth |         |           |                       |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 55315<br>(3557.5 MHz) | 55765<br>(3602.5 MHz) | 56215<br>(3647.5 MHz) | 56665<br>(3692.5 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 24.14                 | 24.26                 | 24.31                 | 24.17                 | 0                            | 0        |
|                                 | 1       | 36        | 24.49                 | 24.39                 | 24.56                 | 24.15                 |                              | 0        |
|                                 | 1       | 74        | 24.28                 | 24.17                 | 24.33                 | 24.08                 |                              | 0        |
|                                 | 36      | 0         | 23.44                 | 23.47                 | 23.47                 | 23.33                 | 0-1                          | 1        |
|                                 | 36      | 18        | 23.54                 | 23.49                 | 23.60                 | 23.34                 |                              | 1        |
|                                 | 36      | 37        | 23.41                 | 23.45                 | 23.54                 | 23.32                 |                              | 1        |
|                                 | 75      | 0         | 23.35                 | 23.44                 | 23.46                 | 23.25                 |                              | 1        |
| 16QAM                           | 1       | 0         | 23.17                 | 23.17                 | 23.36                 | 23.28                 | 0-1                          | 1        |
|                                 | 1       | 36        | 23.13                 | 23.13                 | 23.61                 | 23.48                 |                              | 1        |
|                                 | 1       | 74        | 23.19                 | 23.17                 | 23.40                 | 23.17                 |                              | 1        |
|                                 | 36      | 0         | 22.47                 | 22.47                 | 22.49                 | 22.38                 | 0-2                          | 2        |
|                                 | 36      | 18        | 22.58                 | 22.55                 | 22.61                 | 22.42                 |                              | 2        |
|                                 | 36      | 37        | 22.39                 | 22.47                 | 22.56                 | 22.34                 |                              | 2        |
|                                 | 75      | 0         | 22.35                 | 22.44                 | 22.48                 | 22.29                 |                              | 2        |
| 64QAM                           | 1       | 0         | 22.11                 | 22.22                 | 22.04                 | 22.35                 | 0-2                          | 2        |
|                                 | 1       | 36        | 22.43                 | 22.36                 | 22.28                 | 22.32                 |                              | 2        |
|                                 | 1       | 74        | 22.18                 | 22.15                 | 22.04                 | 22.10                 |                              | 2        |
|                                 | 36      | 0         | 21.51                 | 21.53                 | 21.47                 | 21.31                 | 0-3                          | 3        |
|                                 | 36      | 18        | 21.62                 | 21.60                 | 21.54                 | 21.34                 |                              | 3        |
|                                 | 36      | 37        | 21.46                 | 21.50                 | 21.52                 | 21.26                 |                              | 3        |
|                                 | 75      | 0         | 21.42                 | 21.53                 | 21.46                 | 21.33                 |                              | 3        |
| 256QAM                          | 1       | 0         | 19.73                 | 18.95                 | 19.33                 | 19.76                 | 0-5                          | 5        |
|                                 | 1       | 36        | 19.75                 | 19.05                 | 19.60                 | 19.93                 |                              | 5        |
|                                 | 1       | 74        | 19.83                 | 18.87                 | 19.30                 | 19.61                 |                              | 5        |
|                                 | 36      | 0         | 19.47                 | 19.50                 | 19.38                 | 19.42                 |                              | 5        |
|                                 | 36      | 18        | 19.59                 | 19.54                 | 19.49                 | 19.48                 |                              | 5        |
|                                 | 36      | 37        | 19.47                 | 19.49                 | 19.50                 | 19.41                 |                              | 5        |
|                                 | 75      | 0         | 19.41                 | 19.49                 | 19.46                 | 19.37                 |                              | 5        |

|                                      |                                                                                                                                                                                                         |                               |                                 |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  PCTEST<br>Proud to be part of  | SAR EVALUATION REPORT         | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                      | DUT Type:<br>Portable Handset | Page 111 of 305                 |

Table 9-81

LTE Band 48 Measured  $P_{max}$  for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode), or DSI = 4 (Earjack active) -  
10 MHz Bandwidth

| LTE Band 48<br>10 MHz Bandwidth |         |           |                       |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 55290<br>(3555.0 MHz) | 55757<br>(3601.7 MHz) | 56223<br>(3648.3 MHz) | 56690<br>(3695.0 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 24.42                 | 24.22                 | 24.22                 | 24.00                 | 0                            | 0        |
|                                 | 1       | 25        | 24.79                 | 24.50                 | 24.53                 | 24.36                 |                              | 0        |
|                                 | 1       | 49        | 24.57                 | 24.33                 | 24.28                 | 24.16                 |                              | 0        |
|                                 | 25      | 0         | 23.65                 | 23.42                 | 23.43                 | 23.34                 | 0-1                          | 1        |
|                                 | 25      | 12        | 23.77                 | 23.58                 | 23.56                 | 23.48                 |                              | 1        |
|                                 | 25      | 25        | 23.71                 | 23.54                 | 23.54                 | 23.39                 |                              | 1        |
|                                 | 50      | 0         | 23.68                 | 23.48                 | 23.51                 | 23.39                 |                              | 1        |
| 16QAM                           | 1       | 0         | 23.32                 | 23.26                 | 23.29                 | 23.16                 | 0-1                          | 1        |
|                                 | 1       | 25        | 23.85                 | 23.61                 | 23.63                 | 23.48                 |                              | 1        |
|                                 | 1       | 49        | 23.50                 | 23.45                 | 23.42                 | 23.28                 |                              | 1        |
|                                 | 25      | 0         | 22.70                 | 22.43                 | 22.47                 | 22.38                 | 0-2                          | 2        |
|                                 | 25      | 12        | 22.85                 | 22.61                 | 22.59                 | 22.52                 |                              | 2        |
|                                 | 25      | 25        | 22.82                 | 22.55                 | 22.56                 | 22.43                 |                              | 2        |
|                                 | 50      | 0         | 22.72                 | 22.50                 | 22.53                 | 22.39                 |                              | 2        |
| 64QAM                           | 1       | 0         | 22.12                 | 21.94                 | 21.97                 | 22.12                 | 0-2                          | 2        |
|                                 | 1       | 25        | 22.40                 | 22.33                 | 22.35                 | 22.44                 |                              | 2        |
|                                 | 1       | 49        | 22.23                 | 22.14                 | 22.07                 | 22.19                 |                              | 2        |
|                                 | 25      | 0         | 21.66                 | 21.44                 | 21.43                 | 21.31                 | 0-3                          | 3        |
|                                 | 25      | 12        | 21.83                 | 21.56                 | 21.57                 | 21.40                 |                              | 3        |
|                                 | 25      | 25        | 21.71                 | 21.56                 | 21.52                 | 21.32                 |                              | 3        |
|                                 | 50      | 0         | 21.70                 | 21.48                 | 21.50                 | 21.39                 |                              | 3        |
| 256QAM                          | 1       | 0         | 19.46                 | 18.96                 | 18.83                 | 19.25                 | 0-5                          | 5        |
|                                 | 1       | 25        | 19.86                 | 19.35                 | 19.09                 | 19.51                 |                              | 5        |
|                                 | 1       | 49        | 19.68                 | 19.22                 | 18.97                 | 19.29                 |                              | 5        |
|                                 | 25      | 0         | 19.59                 | 19.40                 | 19.45                 | 19.22                 |                              | 5        |
|                                 | 25      | 12        | 19.68                 | 19.52                 | 19.59                 | 19.38                 |                              | 5        |
|                                 | 25      | 25        | 19.63                 | 19.47                 | 19.46                 | 19.33                 |                              | 5        |
|                                 | 50      | 0         | 19.64                 | 19.41                 | 19.53                 | 19.33                 |                              | 5        |

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Table 9-82

**LTE Band 48 Measured  $P_{max}$  for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode), or DSI = 4 (Earjack active) - 5 MHz Bandwidth**

| LTE Band 48<br>5 MHz Bandwidth |         |           |                       |                       |                       |                       |                              |          |
|--------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                     | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                |         |           | 55265<br>(3552.5 MHz) | 55748<br>(3600.8 MHz) | 56232<br>(3649.2 MHz) | 56715<br>(3697.5 MHz) |                              |          |
|                                |         |           | Conducted Power [dBm] |                       |                       |                       |                              |          |
| QPSK                           | 1       | 0         | 24.58                 | 24.38                 | 24.43                 | 24.28                 | 0                            | 0        |
|                                | 1       | 12        | 24.55                 | 24.47                 | 24.53                 | 24.41                 |                              | 0        |
|                                | 1       | 24        | 24.57                 | 24.47                 | 24.52                 | 24.35                 |                              | 0        |
|                                | 12      | 0         | 23.55                 | 23.44                 | 23.52                 | 23.41                 | 0-1                          | 1        |
|                                | 12      | 6         | 23.60                 | 23.57                 | 23.56                 | 23.51                 |                              | 1        |
|                                | 12      | 13        | 23.53                 | 23.52                 | 23.55                 | 23.47                 |                              | 1        |
|                                | 25      | 0         | 23.56                 | 23.53                 | 23.52                 | 23.41                 |                              | 1        |
| 16QAM                          | 1       | 0         | 23.59                 | 23.62                 | 23.40                 | 23.51                 | 0-1                          | 1        |
|                                | 1       | 12        | 23.60                 | 23.79                 | 23.48                 | 23.67                 |                              | 1        |
|                                | 1       | 24        | 23.62                 | 23.71                 | 23.53                 | 23.59                 |                              | 1        |
|                                | 12      | 0         | 22.59                 | 22.48                 | 22.50                 | 22.45                 | 0-2                          | 2        |
|                                | 12      | 6         | 22.58                 | 22.61                 | 22.61                 | 22.49                 |                              | 2        |
|                                | 12      | 13        | 22.58                 | 22.57                 | 22.55                 | 22.48                 |                              | 2        |
|                                | 25      | 0         | 22.58                 | 22.46                 | 22.50                 | 22.40                 |                              | 2        |
| 64QAM                          | 1       | 0         | 22.58                 | 22.17                 | 22.37                 | 22.09                 | 0-2                          | 2        |
|                                | 1       | 12        | 22.59                 | 22.33                 | 22.46                 | 22.27                 |                              | 2        |
|                                | 1       | 24        | 22.57                 | 22.28                 | 22.42                 | 22.20                 |                              | 2        |
|                                | 12      | 0         | 21.57                 | 21.57                 | 21.50                 | 21.53                 | 0-3                          | 3        |
|                                | 12      | 6         | 21.60                 | 21.66                 | 21.62                 | 21.62                 |                              | 3        |
|                                | 12      | 13        | 21.58                 | 21.64                 | 21.61                 | 21.58                 |                              | 3        |
|                                | 25      | 0         | 21.57                 | 21.50                 | 21.51                 | 21.47                 |                              | 3        |
| 256QAM                         | 1       | 0         | 19.71                 | 19.74                 | 18.96                 | 19.39                 | 0-5                          | 5        |
|                                | 1       | 12        | 19.84                 | 19.81                 | 19.03                 | 19.52                 |                              | 5        |
|                                | 1       | 24        | 19.83                 | 19.81                 | 19.09                 | 19.47                 |                              | 5        |
|                                | 12      | 0         | 19.60                 | 19.28                 | 19.46                 | 19.25                 |                              | 5        |
|                                | 12      | 6         | 19.66                 | 19.34                 | 19.51                 | 19.29                 |                              | 5        |
|                                | 12      | 13        | 19.66                 | 19.32                 | 19.50                 | 19.29                 |                              | 5        |
|                                | 25      | 0         | 19.70                 | 19.37                 | 19.51                 | 19.35                 |                              | 5        |

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**Table 9-83**  
**LTE Band 48 Measured  $P_{limit}$  for DSI = 2 (Head) - 20 MHz Bandwidth**

| LTE Band 48<br>20 MHz Bandwidth |         |           |                       |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 55340<br>(3560.0 MHz) | 55773<br>(3603.3 MHz) | 56207<br>(3646.7 MHz) | 56640<br>(3690.0 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 18.07                 | 18.13                 | 18.06                 | 18.00                 | 0                            | 0        |
|                                 | 1       | 50        | 18.35                 | 18.33                 | 18.40                 | 18.15                 |                              | 0        |
|                                 | 1       | 99        | 18.13                 | 18.13                 | 18.03                 | 17.80                 |                              | 0        |
|                                 | 50      | 0         | 18.36                 | 18.52                 | 18.45                 | 18.29                 | 0-1                          | 0        |
|                                 | 50      | 25        | 18.36                 | 18.55                 | 18.58                 | 18.31                 |                              | 0        |
|                                 | 50      | 50        | 18.32                 | 18.42                 | 18.40                 | 18.20                 |                              | 0        |
|                                 | 100     | 0         | 18.27                 | 18.32                 | 18.37                 | 18.17                 |                              | 0        |
| 16QAM                           | 1       | 0         | 18.05                 | 18.15                 | 18.08                 | 18.03                 | 0-1                          | 0        |
|                                 | 1       | 50        | 18.19                 | 18.44                 | 18.46                 | 18.24                 |                              | 0        |
|                                 | 1       | 99        | 18.14                 | 18.11                 | 18.14                 | 17.89                 |                              | 0        |
|                                 | 50      | 0         | 18.26                 | 18.41                 | 18.40                 | 18.23                 | 0-2                          | 0        |
|                                 | 50      | 25        | 18.29                 | 18.48                 | 18.51                 | 18.29                 |                              | 0        |
|                                 | 50      | 50        | 18.22                 | 18.37                 | 18.33                 | 18.19                 |                              | 0        |
|                                 | 100     | 0         | 18.26                 | 18.32                 | 18.41                 | 18.16                 |                              | 0        |
| 64QAM                           | 1       | 0         | 18.14                 | 18.37                 | 18.00                 | 17.76                 | 0-2                          | 0        |
|                                 | 1       | 50        | 18.41                 | 18.61                 | 18.17                 | 18.00                 |                              | 0        |
|                                 | 1       | 99        | 18.16                 | 18.31                 | 18.01                 | 17.58                 |                              | 0        |
|                                 | 50      | 0         | 18.33                 | 18.65                 | 18.41                 | 18.31                 | 0-3                          | 0        |
|                                 | 50      | 25        | 18.36                 | 18.69                 | 18.56                 | 18.32                 |                              | 0        |
|                                 | 50      | 50        | 18.33                 | 18.54                 | 18.42                 | 18.23                 |                              | 0        |
|                                 | 100     | 0         | 18.26                 | 18.62                 | 18.38                 | 18.23                 |                              | 0        |
| 256QAM                          | 1       | 0         | 18.56                 | 18.48                 | 18.13                 | 18.05                 | 0-5                          | 0        |
|                                 | 1       | 50        | 18.42                 | 18.59                 | 18.52                 | 18.21                 |                              | 0        |
|                                 | 1       | 99        | 18.57                 | 18.29                 | 18.22                 | 17.87                 |                              | 0        |
|                                 | 50      | 0         | 18.31                 | 18.46                 | 18.43                 | 18.32                 |                              | 0        |
|                                 | 50      | 25        | 18.32                 | 18.53                 | 18.53                 | 18.38                 |                              | 0        |
|                                 | 50      | 50        | 18.27                 | 18.45                 | 18.44                 | 18.19                 |                              | 0        |
|                                 | 100     | 0         | 18.23                 | 18.39                 | 18.39                 | 18.19                 |                              | 0        |

|                                      |                                                                                                                                                                                                                               |                               |                                                                                       |                                 |
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| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                            | DUT Type:<br>Portable Handset |                                                                                       | Page 114 of 305                 |

**Table 9-84**  
**LTE Band 48 Measured  $P_{limit}$  for DSI = 2 (Head) - 15 MHz Bandwidth**

| LTE Band 48<br>15 MHz Bandwidth |         |           |                       |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 55315<br>(3557.5 MHz) | 55765<br>(3602.5 MHz) | 56215<br>(3647.5 MHz) | 56665<br>(3692.5 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 18.32                 | 18.33                 | 18.25                 | 18.28                 | 0                            | 0        |
|                                 | 1       | 36        | 18.57                 | 18.47                 | 18.53                 | 18.42                 |                              | 0        |
|                                 | 1       | 74        | 18.40                 | 18.46                 | 18.26                 | 18.17                 |                              | 0        |
|                                 | 36      | 0         | 18.50                 | 18.53                 | 18.54                 | 18.43                 | 0-1                          | 0        |
|                                 | 36      | 18        | 18.63                 | 18.62                 | 18.63                 | 18.47                 |                              | 0        |
|                                 | 36      | 37        | 18.49                 | 18.54                 | 18.59                 | 18.41                 |                              | 0        |
|                                 | 75      | 0         | 18.45                 | 18.52                 | 18.51                 | 18.36                 |                              | 0        |
| 16QAM                           | 1       | 0         | 18.25                 | 18.50                 | 18.41                 | 18.25                 | 0-1                          | 0        |
|                                 | 1       | 36        | 18.52                 | 18.63                 | 18.65                 | 18.28                 |                              | 0        |
|                                 | 1       | 74        | 18.30                 | 18.53                 | 18.40                 | 18.07                 |                              | 0        |
|                                 | 36      | 0         | 18.59                 | 18.50                 | 18.59                 | 18.50                 | 0-2                          | 0        |
|                                 | 36      | 18        | 18.68                 | 18.55                 | 18.68                 | 18.56                 |                              | 0        |
|                                 | 36      | 37        | 18.54                 | 18.48                 | 18.62                 | 18.44                 |                              | 0        |
|                                 | 75      | 0         | 18.46                 | 18.50                 | 18.52                 | 18.37                 |                              | 0        |
| 64QAM                           | 1       | 0         | 18.12                 | 18.29                 | 18.52                 | 18.08                 | 0-2                          | 0        |
|                                 | 1       | 36        | 18.44                 | 18.41                 | 18.79                 | 18.22                 |                              | 0        |
|                                 | 1       | 74        | 18.17                 | 18.41                 | 18.49                 | 17.89                 |                              | 0        |
|                                 | 36      | 0         | 18.54                 | 18.54                 | 18.60                 | 18.44                 | 0-3                          | 0        |
|                                 | 36      | 18        | 18.64                 | 18.55                 | 18.73                 | 18.49                 |                              | 0        |
|                                 | 36      | 37        | 18.50                 | 18.53                 | 18.67                 | 18.37                 |                              | 0        |
|                                 | 75      | 0         | 18.50                 | 18.53                 | 18.60                 | 18.39                 |                              | 0        |
| 256QAM                          | 1       | 0         | 18.84                 | 18.08                 | 18.48                 | 18.41                 | 0-5                          | 0        |
|                                 | 1       | 36        | 18.61                 | 18.20                 | 18.72                 | 18.21                 |                              | 0        |
|                                 | 1       | 74        | 18.63                 | 18.02                 | 18.61                 | 18.18                 |                              | 0        |
|                                 | 36      | 0         | 18.56                 | 18.63                 | 18.53                 | 18.36                 |                              | 0        |
|                                 | 36      | 18        | 18.68                 | 18.70                 | 18.64                 | 18.41                 |                              | 0        |
|                                 | 36      | 37        | 18.51                 | 18.60                 | 18.62                 | 18.32                 |                              | 0        |
|                                 | 75      | 0         | 18.49                 | 18.68                 | 18.56                 | 18.31                 |                              | 0        |

|                                      |                                                                                                                                                                                                                               |                               |                                                                                       |                                 |
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**Table 9-85**  
**LTE Band 48 Measured  $P_{limit}$  for DSI = 2 (Head) - 10 MHz Bandwidth**

| LTE Band 48<br>10 MHz Bandwidth |         |           |                       |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 55290<br>(3555.0 MHz) | 55757<br>(3601.7 MHz) | 56223<br>(3648.3 MHz) | 56690<br>(3695.0 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 18.18                 | 18.28                 | 18.27                 | 18.07                 | 0                            | 0        |
|                                 | 1       | 25        | 18.54                 | 18.62                 | 18.57                 | 18.41                 |                              | 0        |
|                                 | 1       | 49        | 18.37                 | 18.42                 | 18.34                 | 18.18                 |                              | 0        |
|                                 | 25      | 0         | 18.45                 | 18.45                 | 18.46                 | 18.27                 | 0-1                          | 0        |
|                                 | 25      | 12        | 18.60                 | 18.62                 | 18.57                 | 18.42                 |                              | 0        |
|                                 | 25      | 25        | 18.57                 | 18.56                 | 18.51                 | 18.37                 |                              | 0        |
|                                 | 50      | 0         | 18.54                 | 18.51                 | 18.49                 | 18.32                 |                              | 0        |
| 16QAM                           | 1       | 0         | 18.47                 | 18.20                 | 18.18                 | 17.96                 | 0-1                          | 0        |
|                                 | 1       | 25        | 18.57                 | 18.44                 | 18.44                 | 18.29                 |                              | 0        |
|                                 | 1       | 49        | 18.41                 | 18.33                 | 18.25                 | 18.02                 |                              | 0        |
|                                 | 25      | 0         | 18.53                 | 18.45                 | 18.44                 | 18.26                 | 0-2                          | 0        |
|                                 | 25      | 12        | 18.64                 | 18.56                 | 18.53                 | 18.37                 |                              | 0        |
|                                 | 25      | 25        | 18.67                 | 18.51                 | 18.54                 | 18.33                 |                              | 0        |
|                                 | 50      | 0         | 18.51                 | 18.49                 | 18.49                 | 18.31                 |                              | 0        |
| 64QAM                           | 1       | 0         | 18.16                 | 18.09                 | 18.06                 | 17.95                 | 0-2                          | 0        |
|                                 | 1       | 25        | 18.56                 | 18.46                 | 18.44                 | 18.23                 |                              | 0        |
|                                 | 1       | 49        | 18.31                 | 18.26                 | 18.17                 | 18.06                 |                              | 0        |
|                                 | 25      | 0         | 18.45                 | 18.52                 | 18.52                 | 18.34                 | 0-3                          | 0        |
|                                 | 25      | 12        | 18.61                 | 18.67                 | 18.63                 | 18.44                 |                              | 0        |
|                                 | 25      | 25        | 18.58                 | 18.58                 | 18.60                 | 18.40                 |                              | 0        |
|                                 | 50      | 0         | 18.54                 | 18.57                 | 18.57                 | 18.36                 |                              | 0        |
| 256QAM                          | 1       | 0         | 18.42                 | 18.38                 | 18.37                 | 17.98                 | 0-5                          | 0        |
|                                 | 1       | 25        | 18.74                 | 18.73                 | 18.69                 | 18.23                 |                              | 0        |
|                                 | 1       | 49        | 18.52                 | 18.56                 | 18.46                 | 18.09                 |                              | 0        |
|                                 | 25      | 0         | 18.44                 | 18.46                 | 18.40                 | 18.34                 |                              | 0        |
|                                 | 25      | 12        | 18.58                 | 18.64                 | 18.60                 | 18.43                 |                              | 0        |
|                                 | 25      | 25        | 18.53                 | 18.54                 | 18.52                 | 18.30                 |                              | 0        |
|                                 | 50      | 0         | 18.54                 | 18.53                 | 18.54                 | 18.36                 |                              | 0        |

|                                      |                                                                                                                                                                                                                               |                               |                                                                                       |                                 |
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| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                            | DUT Type:<br>Portable Handset |                                                                                       | Page 116 of 305                 |

**Table 9-86**  
**LTE Band 48 Measured  $P_{limit}$  for DSI = 2 (Head) - 5 MHz Bandwidth**

| LTE Band 48<br>5 MHz Bandwidth |         |           |                       |                       |                       |                       |                              |          |
|--------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                     | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                |         |           | 55265<br>(3552.5 MHz) | 55748<br>(3600.8 MHz) | 56232<br>(3649.2 MHz) | 56715<br>(3697.5 MHz) |                              |          |
|                                |         |           | Conducted Power [dBm] |                       |                       |                       |                              |          |
| QPSK                           | 1       | 0         | 18.55                 | 18.47                 | 18.35                 | 18.28                 | 0                            | 0        |
|                                | 1       | 12        | 18.62                 | 18.55                 | 18.51                 | 18.35                 |                              | 0        |
|                                | 1       | 24        | 18.64                 | 18.53                 | 18.39                 | 18.35                 |                              | 0        |
|                                | 12      | 0         | 18.58                 | 18.52                 | 18.50                 | 18.32                 | 0-1                          | 0        |
|                                | 12      | 6         | 18.63                 | 18.63                 | 18.61                 | 18.42                 |                              | 0        |
|                                | 12      | 13        | 18.63                 | 18.62                 | 18.54                 | 18.41                 |                              | 0        |
|                                | 25      | 0         | 18.59                 | 18.57                 | 18.57                 | 18.38                 |                              | 0        |
| 16QAM                          | 1       | 0         | 18.53                 | 18.61                 | 18.47                 | 18.67                 | 0-1                          | 0        |
|                                | 1       | 12        | 18.55                 | 18.70                 | 18.54                 | 18.72                 |                              | 0        |
|                                | 1       | 24        | 18.63                 | 18.74                 | 18.55                 | 18.73                 |                              | 0        |
|                                | 12      | 0         | 18.56                 | 18.49                 | 18.64                 | 18.35                 | 0-2                          | 0        |
|                                | 12      | 6         | 18.65                 | 18.63                 | 18.72                 | 18.39                 |                              | 0        |
|                                | 12      | 13        | 18.63                 | 18.63                 | 18.70                 | 18.39                 |                              | 0        |
|                                | 25      | 0         | 18.59                 | 18.54                 | 18.60                 | 18.34                 |                              | 0        |
| 64QAM                          | 1       | 0         | 18.34                 | 18.38                 | 18.58                 | 18.13                 | 0-2                          | 0        |
|                                | 1       | 12        | 18.49                 | 18.53                 | 18.68                 | 18.25                 |                              | 0        |
|                                | 1       | 24        | 18.48                 | 18.49                 | 18.61                 | 18.27                 |                              | 0        |
|                                | 12      | 0         | 18.63                 | 18.55                 | 18.55                 | 18.42                 | 0-3                          | 0        |
|                                | 12      | 6         | 18.72                 | 18.65                 | 18.60                 | 18.46                 |                              | 0        |
|                                | 12      | 13        | 18.73                 | 18.66                 | 18.62                 | 18.45                 |                              | 0        |
|                                | 25      | 0         | 18.60                 | 18.61                 | 18.57                 | 18.36                 |                              | 0        |
| 256QAM                         | 1       | 0         | 18.65                 | 18.10                 | 18.87                 | 17.94                 | 0-5                          | 0        |
|                                | 1       | 12        | 18.61                 | 18.21                 | 18.87                 | 17.98                 |                              | 0        |
|                                | 1       | 24        | 18.64                 | 18.20                 | 18.83                 | 18.02                 |                              | 0        |
|                                | 12      | 0         | 18.46                 | 18.59                 | 18.41                 | 18.37                 |                              | 0        |
|                                | 12      | 6         | 18.55                 | 18.65                 | 18.49                 | 18.49                 |                              | 0        |
|                                | 12      | 13        | 18.55                 | 18.65                 | 18.49                 | 18.46                 |                              | 0        |
|                                | 25      | 0         | 18.60                 | 18.57                 | 18.51                 | 18.41                 |                              | 0        |

|                                      |                                                                                                                                                                                                                               |                               |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                            | DUT Type:<br>Portable Handset |                                                                                       | Page 117 of 305                 |

## 9.4.12

## LTE Band 41

Table 9-87

LTE Band 41 PC3 Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 20 MHz Bandwidth

| LTE Band 41<br>20 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 24.09                 | 23.84                 | 23.32                 | 23.50                 | 23.56                 | 0                            | 0        |
|                                 | 1       | 50        | 24.10                 | 23.81                 | 23.61                 | 23.78                 | 24.01                 |                              | 0        |
|                                 | 1       | 99        | 24.11                 | 23.72                 | 23.38                 | 23.39                 | 23.92                 |                              | 0        |
|                                 | 50      | 0         | 23.22                 | 22.88                 | 22.57                 | 22.74                 | 22.87                 | 0-1                          | 1        |
|                                 | 50      | 25        | 23.23                 | 22.91                 | 22.72                 | 22.94                 | 23.12                 |                              | 1        |
|                                 | 50      | 50        | 23.18                 | 22.76                 | 22.64                 | 22.77                 | 23.11                 |                              | 1        |
|                                 | 100     | 0         | 23.12                 | 22.80                 | 22.64                 | 22.83                 | 22.96                 |                              | 1        |
| 16QAM                           | 1       | 0         | 22.85                 | 23.04                 | 22.48                 | 22.73                 | 22.25                 | 0-1                          | 1        |
|                                 | 1       | 50        | 22.78                 | 22.97                 | 22.74                 | 22.95                 | 22.61                 |                              | 1        |
|                                 | 1       | 99        | 22.81                 | 22.90                 | 22.57                 | 22.59                 | 22.44                 |                              | 1        |
|                                 | 50      | 0         | 22.22                 | 21.89                 | 21.58                 | 21.86                 | 21.84                 | 0-2                          | 2        |
|                                 | 50      | 25        | 22.22                 | 21.90                 | 21.72                 | 21.94                 | 22.10                 |                              | 2        |
|                                 | 50      | 50        | 22.28                 | 21.75                 | 21.66                 | 21.79                 | 22.09                 |                              | 2        |
|                                 | 100     | 0         | 22.18                 | 21.82                 | 21.64                 | 21.78                 | 21.97                 |                              | 2        |
| 64QAM                           | 1       | 0         | 22.19                 | 22.04                 | 21.46                 | 21.17                 | 21.35                 | 0-2                          | 2        |
|                                 | 1       | 50        | 22.13                 | 22.03                 | 21.80                 | 21.52                 | 21.95                 |                              | 2        |
|                                 | 1       | 99        | 22.12                 | 21.86                 | 21.48                 | 21.05                 | 21.83                 |                              | 2        |
|                                 | 50      | 0         | 21.26                 | 20.89                 | 20.60                 | 20.80                 | 20.89                 | 0-3                          | 3        |
|                                 | 50      | 25        | 21.26                 | 20.89                 | 20.71                 | 20.94                 | 21.16                 |                              | 3        |
|                                 | 50      | 50        | 21.27                 | 20.78                 | 20.67                 | 20.81                 | 21.16                 |                              | 3        |
|                                 | 100     | 0         | 21.20                 | 20.78                 | 20.59                 | 20.84                 | 21.11                 |                              | 3        |
| 256QAM                          | 1       | 0         | 18.99                 | 18.67                 | 18.42                 | 18.53                 | 18.76                 | 0-5                          | 5        |
|                                 | 1       | 50        | 19.37                 | 18.86                 | 18.73                 | 18.82                 | 19.18                 |                              | 5        |
|                                 | 1       | 99        | 19.14                 | 18.57                 | 18.58                 | 18.40                 | 19.10                 |                              | 5        |
|                                 | 50      | 0         | 19.12                 | 18.83                 | 18.62                 | 18.79                 | 18.90                 |                              | 5        |
|                                 | 50      | 25        | 19.24                 | 18.89                 | 18.72                 | 18.89                 | 19.11                 |                              | 5        |
|                                 | 50      | 50        | 19.20                 | 18.68                 | 18.60                 | 18.77                 | 19.08                 |                              | 5        |
|                                 | 100     | 0         | 19.18                 | 18.78                 | 18.61                 | 18.82                 | 19.00                 |                              | 5        |

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 118 of 305                        |

Table 9-88

LTE Band 41 PC3 Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 15 MHz Bandwidth

| LTE Band 41<br>15 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 23.60                 | 23.44                 | 23.56                 | 23.53                 | 23.20                 | 0                            | 0        |
|                                 | 1       | 36        | 23.63                 | 23.60                 | 23.71                 | 23.64                 | 23.41                 |                              | 0        |
|                                 | 1       | 74        | 23.80                 | 23.40                 | 23.60                 | 23.37                 | 23.42                 |                              | 0        |
|                                 | 36      | 0         | 22.63                 | 22.61                 | 22.65                 | 22.60                 | 22.37                 | 0-1                          | 1        |
|                                 | 36      | 18        | 22.72                 | 22.73                 | 22.75                 | 22.62                 | 22.52                 |                              | 1        |
|                                 | 36      | 37        | 22.70                 | 22.66                 | 22.80                 | 22.61                 | 22.58                 |                              | 1        |
|                                 | 75      | 0         | 22.71                 | 22.65                 | 22.70                 | 22.52                 | 22.44                 |                              | 1        |
| 16QAM                           | 1       | 0         | 22.93                 | 22.38                 | 22.44                 | 22.38                 | 22.42                 | 0-1                          | 1        |
|                                 | 1       | 36        | 22.90                 | 22.53                 | 22.59                 | 22.53                 | 22.70                 |                              | 1        |
|                                 | 1       | 74        | 22.95                 | 22.35                 | 22.51                 | 22.22                 | 22.63                 |                              | 1        |
|                                 | 36      | 0         | 21.61                 | 21.64                 | 21.69                 | 21.58                 | 21.42                 | 0-2                          | 2        |
|                                 | 36      | 18        | 21.70                 | 21.75                 | 21.75                 | 21.63                 | 21.53                 |                              | 2        |
|                                 | 36      | 37        | 21.68                 | 21.67                 | 21.83                 | 21.65                 | 21.59                 |                              | 2        |
|                                 | 75      | 0         | 21.63                 | 21.66                 | 21.68                 | 21.54                 | 21.49                 |                              | 2        |
| 64QAM                           | 1       | 0         | 21.58                 | 21.47                 | 21.47                 | 21.30                 | 21.35                 | 0-2                          | 2        |
|                                 | 1       | 36        | 21.68                 | 21.70                 | 21.67                 | 21.48                 | 21.71                 |                              | 2        |
|                                 | 1       | 74        | 21.75                 | 21.47                 | 21.56                 | 21.21                 | 21.67                 |                              | 2        |
|                                 | 36      | 0         | 20.66                 | 20.59                 | 20.72                 | 20.60                 | 20.34                 | 0-3                          | 3        |
|                                 | 36      | 18        | 20.74                 | 20.78                 | 20.78                 | 20.60                 | 20.51                 |                              | 3        |
|                                 | 36      | 37        | 20.70                 | 20.69                 | 20.80                 | 20.59                 | 20.51                 |                              | 3        |
|                                 | 75      | 0         | 20.68                 | 20.70                 | 20.70                 | 20.58                 | 20.52                 |                              | 3        |
| 256QAM                          | 1       | 0         | 18.51                 | 18.78                 | 18.05                 | 17.97                 | 18.35                 | 0-5                          | 5        |
|                                 | 1       | 36        | 18.77                 | 19.02                 | 18.23                 | 18.18                 | 18.70                 |                              | 5        |
|                                 | 1       | 74        | 18.69                 | 18.79                 | 18.13                 | 17.91                 | 18.62                 |                              | 5        |
|                                 | 36      | 0         | 18.54                 | 18.56                 | 18.71                 | 18.62                 | 18.35                 |                              | 5        |
|                                 | 36      | 18        | 18.71                 | 18.73                 | 18.81                 | 18.61                 | 18.50                 |                              | 5        |
|                                 | 36      | 37        | 18.75                 | 18.66                 | 18.83                 | 18.62                 | 18.53                 |                              | 5        |
|                                 | 75      | 0         | 18.71                 | 18.68                 | 18.72                 | 18.59                 | 18.46                 |                              | 5        |

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## SAR EVALUATION REPORT



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Table 9-89

LTE Band 41 PC3 Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 10 MHz Bandwidth

| LTE Band 41<br>10 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 23.72                 | 23.55                 | 23.55                 | 23.50                 | 23.35                 | 0                            | 0        |
|                                 | 1       | 25        | 23.71                 | 23.84                 | 23.83                 | 23.72                 | 23.60                 |                              | 0        |
|                                 | 1       | 49        | 23.87                 | 23.53                 | 23.58                 | 23.58                 | 23.28                 |                              | 0        |
|                                 | 25      | 0         | 22.63                 | 22.75                 | 22.76                 | 22.60                 | 22.51                 | 0-1                          | 1        |
|                                 | 25      | 12        | 22.84                 | 22.82                 | 22.83                 | 22.67                 | 22.59                 |                              | 1        |
|                                 | 25      | 25        | 22.68                 | 22.72                 | 22.79                 | 22.62                 | 22.46                 |                              | 1        |
|                                 | 50      | 0         | 22.66                 | 22.74                 | 22.73                 | 22.58                 | 22.51                 |                              | 1        |
| 16QAM                           | 1       | 0         | 22.88                 | 22.40                 | 22.80                 | 22.73                 | 22.27                 | 0-1                          | 1        |
|                                 | 1       | 25        | 22.72                 | 22.66                 | 23.08                 | 22.80                 | 22.51                 |                              | 1        |
|                                 | 1       | 49        | 22.74                 | 22.42                 | 22.83                 | 22.55                 | 22.25                 |                              | 1        |
|                                 | 25      | 0         | 21.65                 | 21.77                 | 21.73                 | 21.63                 | 21.62                 | 0-2                          | 2        |
|                                 | 25      | 12        | 21.77                 | 21.85                 | 21.79                 | 21.69                 | 21.52                 |                              | 2        |
|                                 | 25      | 25        | 21.79                 | 21.74                 | 21.80                 | 21.63                 | 21.48                 |                              | 2        |
|                                 | 50      | 0         | 21.68                 | 21.70                 | 21.72                 | 21.57                 | 21.52                 |                              | 2        |
| 64QAM                           | 1       | 0         | 21.70                 | 21.50                 | 21.64                 | 21.22                 | 21.23                 | 0-2                          | 2        |
|                                 | 1       | 25        | 21.78                 | 21.77                 | 22.03                 | 21.46                 | 21.40                 |                              | 2        |
|                                 | 1       | 49        | 21.82                 | 21.54                 | 21.78                 | 21.15                 | 21.08                 |                              | 2        |
|                                 | 25      | 0         | 20.57                 | 20.78                 | 20.73                 | 20.58                 | 20.50                 | 0-3                          | 3        |
|                                 | 25      | 12        | 20.67                 | 20.85                 | 20.77                 | 20.70                 | 20.58                 |                              | 3        |
|                                 | 25      | 25        | 20.69                 | 20.76                 | 20.76                 | 20.66                 | 20.52                 |                              | 3        |
|                                 | 50      | 0         | 20.65                 | 20.71                 | 20.72                 | 20.54                 | 20.50                 |                              | 3        |
| 256QAM                          | 1       | 0         | 18.38                 | 18.02                 | 18.72                 | 18.34                 | 17.86                 | 0-5                          | 5        |
|                                 | 1       | 25        | 18.57                 | 18.23                 | 19.05                 | 18.55                 | 18.00                 |                              | 5        |
|                                 | 1       | 49        | 18.26                 | 18.06                 | 18.71                 | 18.30                 | 17.99                 |                              | 5        |
|                                 | 25      | 0         | 18.52                 | 18.75                 | 18.72                 | 18.60                 | 18.56                 |                              | 5        |
|                                 | 25      | 12        | 18.71                 | 18.85                 | 18.77                 | 18.63                 | 18.65                 |                              | 5        |
|                                 | 25      | 25        | 18.62                 | 18.71                 | 18.76                 | 18.63                 | 18.48                 |                              | 5        |
|                                 | 50      | 0         | 18.64                 | 18.80                 | 18.75                 | 18.62                 | 18.55                 |                              | 5        |

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## SAR EVALUATION REPORT



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DUT Type:

Portable Handset

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Table 9-90

LTE Band 41 PC3 Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 5 MHz Bandwidth

| LTE Band 41<br>5 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                              |          |
|--------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                     | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                              |          |
|                                |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                              |          |
| QPSK                           | 1       | 0         | 23.56                 | 23.62                 | 23.73                 | 23.59                 | 23.51                 | 0                            | 0        |
|                                | 1       | 12        | 23.60                 | 23.63                 | 23.86                 | 23.63                 | 23.53                 |                              | 0        |
|                                | 1       | 24        | 23.66                 | 23.58                 | 23.76                 | 23.58                 | 23.43                 |                              | 0        |
|                                | 12      | 0         | 22.72                 | 22.68                 | 22.80                 | 22.70                 | 22.59                 | 0-1                          | 1        |
|                                | 12      | 6         | 22.77                 | 22.74                 | 22.95                 | 22.73                 | 22.57                 |                              | 1        |
|                                | 12      | 13        | 22.78                 | 22.64                 | 22.84                 | 22.74                 | 22.54                 |                              | 1        |
|                                | 25      | 0         | 22.72                 | 22.66                 | 22.80                 | 22.61                 | 22.56                 |                              | 1        |
| 16QAM                          | 1       | 0         | 22.82                 | 22.58                 | 22.64                 | 22.76                 | 22.44                 | 0-1                          | 1        |
|                                | 1       | 12        | 22.95                 | 22.54                 | 22.84                 | 22.82                 | 22.40                 |                              | 1        |
|                                | 1       | 24        | 22.91                 | 22.54                 | 22.71                 | 22.82                 | 22.43                 |                              | 1        |
|                                | 12      | 0         | 21.73                 | 21.73                 | 21.85                 | 21.68                 | 21.54                 | 0-2                          | 2        |
|                                | 12      | 6         | 21.78                 | 21.74                 | 21.93                 | 21.75                 | 21.60                 |                              | 2        |
|                                | 12      | 13        | 21.79                 | 21.66                 | 21.90                 | 21.66                 | 21.57                 |                              | 2        |
|                                | 25      | 0         | 21.63                 | 21.63                 | 21.86                 | 21.61                 | 21.52                 |                              | 2        |
| 64QAM                          | 1       | 0         | 21.49                 | 21.88                 | 22.06                 | 21.51                 | 21.73                 | 0-2                          | 2        |
|                                | 1       | 12        | 21.58                 | 21.84                 | 22.12                 | 21.57                 | 21.71                 |                              | 2        |
|                                | 1       | 24        | 21.52                 | 21.82                 | 22.07                 | 21.52                 | 21.71                 |                              | 2        |
|                                | 12      | 0         | 20.84                 | 20.71                 | 20.93                 | 20.61                 | 20.59                 | 0-3                          | 3        |
|                                | 12      | 6         | 20.85                 | 20.72                 | 20.98                 | 20.65                 | 20.64                 |                              | 3        |
|                                | 12      | 13        | 20.86                 | 20.73                 | 20.94                 | 20.65                 | 20.61                 |                              | 3        |
|                                | 25      | 0         | 20.74                 | 20.65                 | 20.86                 | 20.67                 | 20.49                 |                              | 3        |
| 256QAM                         | 1       | 0         | 18.43                 | 18.93                 | 18.91                 | 18.44                 | 18.84                 | 0-5                          | 5        |
|                                | 1       | 12        | 18.49                 | 18.92                 | 18.95                 | 18.46                 | 18.81                 |                              | 5        |
|                                | 1       | 24        | 18.50                 | 18.86                 | 18.91                 | 18.46                 | 18.79                 |                              | 5        |
|                                | 12      | 0         | 18.77                 | 18.61                 | 18.80                 | 18.69                 | 18.56                 |                              | 5        |
|                                | 12      | 6         | 18.74                 | 18.63                 | 18.85                 | 18.74                 | 18.54                 |                              | 5        |
|                                | 12      | 13        | 18.74                 | 18.62                 | 18.82                 | 18.70                 | 18.51                 |                              | 5        |
|                                | 25      | 0         | 18.71                 | 18.62                 | 18.82                 | 18.65                 | 18.48                 |                              | 5        |

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Portable Handset

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**Table 9-91**  
**LTE Band 41 PC2 Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 20 MHz Bandwidth**

| LTE Band 41<br>20 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 26.78                 | 26.97                 | 26.76                 | 26.72                 | 26.34                 | 0                            | 0        |
|                                 | 1       | 50        | 26.76                 | 27.02                 | 27.03                 | 26.92                 | 26.58                 |                              | 0        |
|                                 | 1       | 99        | 26.72                 | 26.96                 | 26.72                 | 26.55                 | 26.49                 |                              | 0        |
|                                 | 50      | 0         | 25.94                 | 26.07                 | 26.04                 | 25.95                 | 25.53                 | 0-1                          | 1        |
|                                 | 50      | 25        | 25.95                 | 26.11                 | 26.13                 | 25.98                 | 25.66                 |                              | 1        |
|                                 | 50      | 50        | 25.90                 | 26.04                 | 26.00                 | 25.91                 | 25.57                 |                              | 1        |
|                                 | 100     | 0         | 25.83                 | 26.00                 | 26.05                 | 25.90                 | 25.47                 |                              | 1        |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 122 of 305                                                                       |                                        |

**Table 9-92**  
**LTE Band 41 PC3 Measured  $P_{limit}$  for DSI = 3 (Hotspot mode) - 20 MHz Bandwidth**

| LTE Band 41<br>20 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 21.38                 | 21.19                 | 21.03                 | 21.07                 | 20.88                 | 0                            | 0        |
|                                 | 1       | 50        | 21.40                 | 21.27                 | 21.37                 | 21.37                 | 21.29                 |                              | 0        |
|                                 | 1       | 99        | 21.36                 | 21.24                 | 21.14                 | 20.90                 | 21.14                 |                              | 0        |
|                                 | 50      | 0         | 21.40                 | 21.29                 | 21.29                 | 21.27                 | 21.16                 | 0-1                          | 0        |
|                                 | 50      | 25        | 21.53                 | 21.36                 | 21.45                 | 21.38                 | 21.37                 |                              | 0        |
|                                 | 50      | 50        | 21.45                 | 21.32                 | 21.41                 | 21.30                 | 21.33                 |                              | 0        |
|                                 | 100     | 0         | 21.39                 | 21.24                 | 21.34                 | 21.26                 | 21.26                 |                              | 0        |
| 16QAM                           | 1       | 0         | 21.50                 | 20.99                 | 20.80                 | 21.34                 | 21.01                 | 0-1                          | 0        |
|                                 | 1       | 50        | 21.57                 | 21.01                 | 21.19                 | 21.67                 | 21.46                 |                              | 0        |
|                                 | 1       | 99        | 21.48                 | 20.95                 | 20.75                 | 21.21                 | 21.30                 |                              | 0        |
|                                 | 50      | 0         | 21.43                 | 21.27                 | 21.30                 | 21.34                 | 21.18                 | 0-2                          | 0        |
|                                 | 50      | 25        | 21.55                 | 21.36                 | 21.45                 | 21.39                 | 21.40                 |                              | 0        |
|                                 | 50      | 50        | 21.45                 | 21.29                 | 21.46                 | 21.35                 | 21.35                 |                              | 0        |
|                                 | 100     | 0         | 21.43                 | 21.26                 | 21.30                 | 21.28                 | 21.26                 |                              | 0        |
| 64QAM                           | 1       | 0         | 21.10                 | 21.19                 | 20.88                 | 20.86                 | 20.66                 | 0-2                          | 0        |
|                                 | 1       | 50        | 21.30                 | 21.26                 | 21.34                 | 21.22                 | 21.07                 |                              | 0        |
|                                 | 1       | 99        | 21.21                 | 21.22                 | 21.03                 | 20.69                 | 20.83                 |                              | 0        |
|                                 | 50      | 0         | 21.45                 | 21.25                 | 21.32                 | 21.33                 | 21.14                 | 0-3                          | 0        |
|                                 | 50      | 25        | 21.52                 | 21.41                 | 21.46                 | 21.43                 | 21.34                 |                              | 0        |
|                                 | 50      | 50        | 21.49                 | 21.35                 | 21.43                 | 21.34                 | 21.32                 |                              | 0        |
|                                 | 100     | 0         | 21.41                 | 21.31                 | 21.36                 | 21.31                 | 21.28                 |                              | 0        |
| 256QAM                          | 1       | 0         | 18.64                 | 18.54                 | 18.57                 | 18.77                 | 18.50                 | 0-5                          | 2        |
|                                 | 1       | 50        | 18.88                 | 18.87                 | 18.97                 | 19.00                 | 18.71                 |                              | 2        |
|                                 | 1       | 99        | 18.60                 | 18.50                 | 18.70                 | 18.71                 | 18.59                 |                              | 2        |
|                                 | 50      | 0         | 18.73                 | 18.66                 | 18.73                 | 18.82                 | 18.61                 |                              | 2        |
|                                 | 50      | 25        | 18.89                 | 18.83                 | 18.87                 | 18.88                 | 18.78                 |                              | 2        |
|                                 | 50      | 50        | 18.85                 | 18.67                 | 18.86                 | 18.80                 | 18.70                 |                              | 2        |
|                                 | 100     | 0         | 18.83                 | 18.65                 | 18.74                 | 18.70                 | 18.68                 |                              | 2        |

|                                             |                                                                                                                                                                                                                             |                                      |                                                                                       |                                        |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                   | <b>DUT Type:</b><br>Portable Handset | Page 123 of 305                                                                       |                                        |

**Table 9-93**  
**LTE Band 41 PC3 Measured  $P_{limit}$  for DSI = 3 (Hotspot mode) - 15 MHz Bandwidth**

| LTE Band 41<br>15 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                              |          |   |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|---|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |   |
|                                 |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                              |          |   |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                              |          |   |
| QPSK                            | 1       | 0         | 20.84                 | 20.73                 | 20.74                 | 20.71                 | 20.44                 | 0                            | 0        |   |
|                                 | 1       | 36        | 20.89                 | 20.98                 | 21.02                 | 20.77                 | 20.74                 |                              | 0        |   |
|                                 | 1       | 74        | 20.86                 | 20.70                 | 20.81                 | 20.57                 | 20.66                 |                              | 0        |   |
|                                 | 36      | 0         | 20.87                 | 20.86                 | 20.93                 | 20.81                 | 20.67                 | 0-1                          | 0        |   |
|                                 | 36      | 18        | 20.98                 | 21.00                 | 21.00                 | 20.89                 | 20.83                 |                              | 0        |   |
|                                 | 36      | 37        | 20.94                 | 20.95                 | 21.04                 | 20.84                 | 20.83                 |                              | 0        |   |
| 16QAM                           | 75      | 0         | 20.88                 | 20.88                 | 20.91                 | 20.73                 | 20.74                 | 0-1                          | 0        |   |
|                                 | 1       | 0         | 20.48                 | 20.81                 | 20.42                 | 20.75                 | 20.11                 |                              | 0        |   |
|                                 | 1       | 36        | 20.58                 | 21.07                 | 20.71                 | 20.99                 | 20.44                 |                              | 0        |   |
|                                 | 1       | 74        | 20.54                 | 20.80                 | 20.49                 | 20.65                 | 20.31                 | 0-2                          | 0        |   |
|                                 | 36      | 0         | 20.91                 | 20.91                 | 20.95                 | 20.89                 | 20.66                 |                              | 0        |   |
|                                 | 36      | 18        | 21.01                 | 21.00                 | 21.02                 | 20.92                 | 20.85                 |                              | 0        |   |
|                                 | 36      | 37        | 20.99                 | 20.94                 | 21.08                 | 20.87                 | 20.84                 |                              | 0        |   |
|                                 | 75      | 0         | 20.89                 | 20.88                 | 20.92                 | 20.79                 | 20.77                 | 0                            |          |   |
|                                 | 64QAM   | 1         | 0                     | 21.01                 | 20.44                 | 20.92                 | 20.59                 | 20.61                        | 0-2      | 0 |
|                                 |         | 1         | 36                    | 21.13                 | 20.75                 | 21.21                 | 20.84                 | 20.98                        |          | 0 |
| 1                               |         | 74        | 21.09                 | 20.47                 | 21.01                 | 20.53                 | 20.86                 | 0                            |          |   |
| 36                              |         | 0         | 20.96                 | 20.87                 | 21.00                 | 20.77                 | 20.73                 | 0-3                          | 0        |   |
| 36                              |         | 18        | 21.04                 | 20.98                 | 21.12                 | 20.85                 | 20.91                 |                              | 0        |   |
| 36                              |         | 37        | 21.05                 | 20.91                 | 21.14                 | 20.75                 | 20.91                 |                              | 0        |   |
| 75                              |         | 0         | 20.94                 | 20.90                 | 20.97                 | 20.76                 | 20.80                 |                              | 0        |   |
| 256QAM                          | 1       | 0         | 18.60                 | 18.71                 | 18.31                 | 18.74                 | 18.63                 | 0-5                          | 2        |   |
|                                 | 1       | 36        | 18.95                 | 18.81                 | 18.56                 | 18.89                 | 18.84                 |                              | 2        |   |
|                                 | 1       | 74        | 18.78                 | 18.76                 | 18.47                 | 18.66                 | 18.75                 |                              | 2        |   |
|                                 | 36      | 0         | 18.30                 | 18.33                 | 18.31                 | 18.28                 | 18.62                 |                              | 2        |   |
|                                 | 36      | 18        | 18.49                 | 18.48                 | 18.43                 | 18.39                 | 18.64                 |                              | 2        |   |
|                                 | 36      | 37        | 18.46                 | 18.39                 | 18.50                 | 18.32                 | 18.64                 |                              | 2        |   |
|                                 | 75      | 0         | 18.37                 | 18.43                 | 18.34                 | 18.33                 | 18.63                 |                              | 2        |   |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 124 of 305                                                                       |                                        |

**Table 9-94**  
**LTE Band 41 PC3 Measured  $P_{limit}$  for DSI = 3 (Hotspot mode) - 10 MHz Bandwidth**

| LTE Band 41<br>10 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 21.07                 | 20.92                 | 20.80                 | 20.72                 | 20.53                 | 0                            | 0        |
|                                 | 1       | 25        | 21.04                 | 21.11                 | 21.06                 | 20.97                 | 20.74                 |                              | 0        |
|                                 | 1       | 49        | 21.23                 | 20.81                 | 20.81                 | 20.68                 | 20.47                 |                              | 0        |
|                                 | 25      | 0         | 20.91                 | 21.02                 | 21.02                 | 20.85                 | 20.77                 | 0-1                          | 0        |
|                                 | 25      | 12        | 21.03                 | 21.12                 | 21.13                 | 20.96                 | 20.87                 |                              | 0        |
|                                 | 25      | 25        | 20.97                 | 20.98                 | 21.06                 | 20.91                 | 20.72                 |                              | 0        |
|                                 | 50      | 0         | 20.94                 | 21.02                 | 21.03                 | 20.84                 | 20.77                 |                              | 0        |
| 16QAM                           | 1       | 0         | 21.08                 | 20.72                 | 20.94                 | 20.83                 | 20.65                 | 0-1                          | 0        |
|                                 | 1       | 25        | 21.21                 | 21.11                 | 21.17                 | 21.08                 | 20.82                 |                              | 0        |
|                                 | 1       | 49        | 21.17                 | 21.00                 | 20.92                 | 20.81                 | 20.61                 |                              | 0        |
|                                 | 25      | 0         | 20.97                 | 21.06                 | 21.07                 | 20.90                 | 20.84                 | 0-2                          | 0        |
|                                 | 25      | 12        | 21.06                 | 21.16                 | 21.14                 | 20.96                 | 20.91                 |                              | 0        |
|                                 | 25      | 25        | 21.05                 | 21.01                 | 21.10                 | 20.97                 | 20.77                 |                              | 0        |
|                                 | 50      | 0         | 20.95                 | 21.08                 | 21.03                 | 20.90                 | 20.77                 |                              | 0        |
| 64QAM                           | 1       | 0         | 21.31                 | 21.07                 | 20.68                 | 20.60                 | 20.48                 | 0-2                          | 0        |
|                                 | 1       | 25        | 21.41                 | 21.45                 | 20.97                 | 20.79                 | 20.69                 |                              | 0        |
|                                 | 1       | 49        | 21.36                 | 21.20                 | 20.72                 | 20.57                 | 20.37                 |                              | 0        |
|                                 | 25      | 0         | 20.93                 | 20.98                 | 21.01                 | 20.86                 | 20.77                 | 0-3                          | 0        |
|                                 | 25      | 12        | 21.01                 | 21.08                 | 21.07                 | 20.98                 | 20.82                 |                              | 0        |
|                                 | 25      | 25        | 20.98                 | 20.98                 | 21.06                 | 20.92                 | 20.73                 |                              | 0        |
|                                 | 50      | 0         | 20.92                 | 21.01                 | 21.00                 | 20.84                 | 20.75                 |                              | 0        |
| 256QAM                          | 1       | 0         | 18.60                 | 18.69                 | 18.31                 | 18.62                 | 18.58                 | 0-5                          | 2        |
|                                 | 1       | 25        | 18.67                 | 18.63                 | 18.68                 | 18.60                 | 18.63                 |                              | 2        |
|                                 | 1       | 49        | 18.60                 | 18.75                 | 18.41                 | 18.83                 | 18.58                 |                              | 2        |
|                                 | 25      | 0         | 18.91                 | 18.62                 | 18.35                 | 18.28                 | 18.37                 |                              | 2        |
|                                 | 25      | 12        | 18.84                 | 18.74                 | 18.46                 | 18.39                 | 18.41                 |                              | 2        |
|                                 | 25      | 25        | 18.68                 | 18.63                 | 18.41                 | 18.30                 | 18.30                 |                              | 2        |
|                                 | 50      | 0         | 18.69                 | 18.63                 | 18.39                 | 18.32                 | 18.38                 |                              | 2        |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 125 of 305                                                                       |                                        |

**Table 9-95**  
**LTE Band 41 PC3 Measured  $P_{limit}$  for DSI = 3 (Hotspot mode) - 5 MHz Bandwidth**

| LTE Band 41<br>5 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                              |          |
|--------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                     | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                              |          |
|                                |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                              |          |
| QPSK                           | 1       | 0         | 20.95                 | 21.02                 | 21.10                 | 20.82                 | 20.91                 | 0                            | 0        |
|                                | 1       | 12        | 20.97                 | 21.04                 | 21.17                 | 20.87                 | 20.83                 |                              | 0        |
|                                | 1       | 24        | 21.07                 | 21.04                 | 21.14                 | 20.81                 | 20.82                 |                              | 0        |
|                                | 12      | 0         | 21.04                 | 21.10                 | 21.13                 | 20.95                 | 20.85                 | 0-1                          | 0        |
|                                | 12      | 6         | 21.06                 | 21.15                 | 21.18                 | 21.00                 | 20.85                 |                              | 0        |
|                                | 12      | 13        | 21.00                 | 21.10                 | 21.14                 | 20.98                 | 20.84                 |                              | 0        |
|                                | 25      | 0         | 21.01                 | 21.09                 | 21.12                 | 20.97                 | 20.85                 |                              | 0        |
| 16QAM                          | 1       | 0         | 20.97                 | 21.20                 | 21.06                 | 21.15                 | 20.83                 | 0-1                          | 0        |
|                                | 1       | 12        | 21.00                 | 21.34                 | 21.09                 | 21.15                 | 20.78                 |                              | 0        |
|                                | 1       | 24        | 21.02                 | 21.25                 | 21.11                 | 21.14                 | 20.75                 |                              | 0        |
|                                | 12      | 0         | 21.04                 | 21.15                 | 21.11                 | 20.99                 | 20.88                 | 0-2                          | 0        |
|                                | 12      | 6         | 21.08                 | 21.12                 | 21.19                 | 21.06                 | 20.85                 |                              | 0        |
|                                | 12      | 13        | 21.09                 | 21.09                 | 21.19                 | 21.01                 | 20.83                 |                              | 0        |
|                                | 25      | 0         | 21.00                 | 21.02                 | 21.08                 | 20.94                 | 20.79                 |                              | 0        |
| 64QAM                          | 1       | 0         | 20.84                 | 20.87                 | 20.90                 | 21.02                 | 20.62                 | 0-2                          | 0        |
|                                | 1       | 12        | 20.84                 | 20.95                 | 20.97                 | 21.11                 | 20.70                 |                              | 0        |
|                                | 1       | 24        | 20.92                 | 20.95                 | 20.91                 | 21.04                 | 20.62                 |                              | 0        |
|                                | 12      | 0         | 21.04                 | 21.15                 | 21.13                 | 20.97                 | 20.87                 | 0-3                          | 0        |
|                                | 12      | 6         | 21.08                 | 21.17                 | 21.23                 | 21.03                 | 20.89                 |                              | 0        |
|                                | 12      | 13        | 21.09                 | 21.15                 | 21.21                 | 21.03                 | 20.84                 |                              | 0        |
|                                | 25      | 0         | 21.01                 | 21.12                 | 21.09                 | 20.94                 | 20.79                 |                              | 0        |
| 256QAM                         | 1       | 0         | 18.75                 | 18.65                 | 18.92                 | 18.40                 | 18.63                 | 0-5                          | 2        |
|                                | 1       | 12        | 18.80                 | 18.71                 | 18.98                 | 18.49                 | 18.56                 |                              | 2        |
|                                | 1       | 24        | 18.78                 | 18.61                 | 18.91                 | 18.44                 | 18.54                 |                              | 2        |
|                                | 12      | 0         | 18.32                 | 18.54                 | 18.41                 | 18.28                 | 18.15                 |                              | 2        |
|                                | 12      | 6         | 18.31                 | 18.58                 | 18.46                 | 18.35                 | 18.09                 |                              | 2        |
|                                | 12      | 13        | 18.29                 | 18.54                 | 18.46                 | 18.33                 | 18.11                 |                              | 2        |
|                                | 25      | 0         | 18.35                 | 18.54                 | 18.44                 | 18.33                 | 18.19                 |                              | 2        |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 126 of 305                                                                       |                                        |

**Table 9-96**  
**LTE Band 41 PC2 Measured  $P_{limit}$  for DSI = 3 (Hotspot mode) - 20 MHz Bandwidth**

| LTE Band 41<br>20 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 22.94                 | 22.83                 | 22.63                 | 22.81                 | 22.63                 | 0                            | 0        |
|                                 | 1       | 50        | 23.03                 | 22.88                 | 22.98                 | 22.94                 | 23.02                 |                              | 0        |
|                                 | 1       | 99        | 23.00                 | 22.89                 | 22.70                 | 22.54                 | 22.87                 |                              | 0        |
|                                 | 50      | 0         | 23.07                 | 22.97                 | 22.97                 | 22.98                 | 22.78                 | 0-1                          | 0        |
|                                 | 50      | 25        | 23.17                 | 23.07                 | 23.09                 | 23.04                 | 23.01                 |                              | 0        |
|                                 | 50      | 50        | 23.12                 | 23.04                 | 23.11                 | 22.96                 | 22.98                 |                              | 0        |
|                                 | 100     | 0         | 23.02                 | 22.97                 | 22.99                 | 22.95                 | 22.93                 |                              | 0        |
|                                 |         |           |                       |                       |                       |                       |                       |                              |          |

|                                             |                                                                                                                                                                                                                             |                                      |                                                                                       |                                        |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                   | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 127 of 305                        |

**Table 9-97**  
**LTE Band 41 PC3 Measured  $P_{limit}$  for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 20 MHz Bandwidth**

| LTE Band 41<br>20 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 22.36                 | 22.28                 | 22.04                 | 22.10                 | 21.85                 | 0                            | 0        |
|                                 | 1       | 50        | 22.41                 | 22.35                 | 22.44                 | 22.40                 | 22.22                 |                              | 0        |
|                                 | 1       | 99        | 22.35                 | 22.30                 | 22.16                 | 21.91                 | 22.08                 |                              | 0        |
|                                 | 50      | 0         | 22.43                 | 22.31                 | 22.39                 | 22.31                 | 22.12                 | 0-1                          | 0        |
|                                 | 50      | 25        | 22.48                 | 22.42                 | 22.51                 | 22.41                 | 22.35                 |                              | 0        |
|                                 | 50      | 50        | 22.45                 | 22.40                 | 22.47                 | 22.29                 | 22.31                 |                              | 0        |
|                                 | 100     | 0         | 22.40                 | 22.31                 | 22.36                 | 22.26                 | 22.24                 |                              | 0        |
| 16QAM                           | 1       | 0         | 22.08                 | 22.08                 | 22.36                 | 22.41                 | 22.00                 | 0-1                          | 0        |
|                                 | 1       | 50        | 22.14                 | 22.11                 | 22.40                 | 22.45                 | 22.42                 |                              | 0        |
|                                 | 1       | 99        | 22.09                 | 21.99                 | 22.43                 | 22.20                 | 22.21                 |                              | 0        |
|                                 | 50      | 0         | 21.77                 | 21.69                 | 22.08                 | 21.80                 | 21.60                 | 0-2                          | 0        |
|                                 | 50      | 25        | 21.91                 | 21.85                 | 21.88                 | 21.81                 | 21.80                 |                              | 0        |
|                                 | 50      | 50        | 21.85                 | 21.76                 | 21.89                 | 21.79                 | 21.78                 |                              | 0        |
|                                 | 100     | 0         | 21.79                 | 21.70                 | 21.81                 | 21.72                 | 21.69                 |                              | 0        |
| 64QAM                           | 1       | 0         | 22.20                 | 22.42                 | 21.90                 | 22.10                 | 21.80                 | 0-2                          | 0        |
|                                 | 1       | 50        | 22.27                 | 22.32                 | 22.38                 | 22.50                 | 22.11                 |                              | 0        |
|                                 | 1       | 99        | 22.30                 | 22.27                 | 21.98                 | 22.20                 | 21.92                 |                              | 0        |
|                                 | 50      | 0         | 21.75                 | 21.64                 | 21.70                 | 21.61                 | 21.50                 | 0-3                          | 1        |
|                                 | 50      | 25        | 21.69                 | 21.60                 | 21.62                 | 21.69                 | 21.53                 |                              | 1        |
|                                 | 50      | 50        | 21.74                 | 21.59                 | 21.72                 | 21.68                 | 21.51                 |                              | 1        |
|                                 | 100     | 0         | 21.66                 | 21.62                 | 21.65                 | 21.65                 | 21.50                 |                              | 1        |
| 256QAM                          | 1       | 0         | 18.80                 | 18.67                 | 18.77                 | 18.70                 | 18.66                 | 0-5                          | 3        |
|                                 | 1       | 50        | 18.89                 | 18.90                 | 18.96                 | 19.06                 | 18.90                 |                              | 3        |
|                                 | 1       | 99        | 18.90                 | 18.89                 | 19.02                 | 18.70                 | 18.73                 |                              | 3        |
|                                 | 50      | 0         | 18.91                 | 18.70                 | 18.90                 | 18.88                 | 18.60                 |                              | 3        |
|                                 | 50      | 25        | 18.93                 | 18.75                 | 18.97                 | 18.90                 | 18.83                 |                              | 3        |
|                                 | 50      | 50        | 18.82                 | 18.86                 | 18.94                 | 18.77                 | 18.78                 |                              | 3        |
|                                 | 100     | 0         | 18.80                 | 18.77                 | 18.80                 | 18.70                 | 18.98                 |                              | 3        |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 128 of 305                                                                       |                                        |



**Table 9-98**  
**LTE Band 41 PC3 Measured  $P_{limit}$  for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 15 MHz Bandwidth**

| LTE Band 41<br>15 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 21.89                 | 21.78                 | 21.76                 | 21.77                 | 21.46                 | 0                            | 0        |
|                                 | 1       | 36        | 21.93                 | 22.02                 | 22.06                 | 21.79                 | 21.77                 |                              | 0        |
|                                 | 1       | 74        | 21.91                 | 21.77                 | 21.83                 | 21.60                 | 21.68                 |                              | 0        |
|                                 | 36      | 0         | 21.94                 | 21.90                 | 21.95                 | 21.85                 | 21.68                 | 0-1                          | 0        |
|                                 | 36      | 18        | 22.04                 | 22.05                 | 22.03                 | 21.91                 | 21.89                 |                              | 0        |
|                                 | 36      | 37        | 21.99                 | 21.95                 | 22.10                 | 21.87                 | 21.84                 |                              | 0        |
|                                 | 75      | 0         | 21.98                 | 21.95                 | 21.99                 | 21.79                 | 21.79                 |                              | 0        |
| 16QAM                           | 1       | 0         | 22.03                 | 21.65                 | 21.93                 | 21.97                 | 21.61                 | 0-1                          | 0        |
|                                 | 1       | 36        | 22.06                 | 21.96                 | 22.18                 | 22.00                 | 21.86                 |                              | 0        |
|                                 | 1       | 74        | 22.03                 | 21.65                 | 21.96                 | 21.81                 | 21.82                 |                              | 0        |
|                                 | 36      | 0         | 21.98                 | 21.96                 | 22.02                 | 21.80                 | 21.77                 | 0-2                          | 0        |
|                                 | 36      | 18        | 22.14                 | 22.16                 | 22.14                 | 21.83                 | 21.93                 |                              | 0        |
|                                 | 36      | 37        | 22.08                 | 22.08                 | 22.14                 | 21.82                 | 21.92                 |                              | 0        |
|                                 | 75      | 0         | 21.97                 | 21.97                 | 21.94                 | 21.79                 | 21.80                 |                              | 0        |
| 64QAM                           | 1       | 0         | 22.28                 | 21.72                 | 22.10                 | 21.80                 | 21.83                 | 0-2                          | 0        |
|                                 | 1       | 36        | 22.38                 | 22.01                 | 22.47                 | 22.06                 | 22.21                 |                              | 0        |
|                                 | 1       | 74        | 22.34                 | 21.72                 | 22.26                 | 21.57                 | 22.06                 |                              | 0        |
|                                 | 36      | 0         | 21.23                 | 21.11                 | 21.24                 | 20.94                 | 20.95                 | 0-3                          | 1        |
|                                 | 36      | 18        | 21.32                 | 21.26                 | 21.31                 | 21.02                 | 21.15                 |                              | 1        |
|                                 | 36      | 37        | 21.25                 | 21.16                 | 21.36                 | 21.11                 | 21.10                 |                              | 1        |
|                                 | 75      | 0         | 21.21                 | 21.15                 | 21.22                 | 20.89                 | 21.03                 |                              | 1        |
| 256QAM                          | 1       | 0         | 18.92                 | 18.92                 | 18.59                 | 18.70                 | 18.30                 | 0-5                          | 3        |
|                                 | 1       | 36        | 19.28                 | 19.26                 | 18.92                 | 18.87                 | 18.65                 |                              | 3        |
|                                 | 1       | 74        | 19.10                 | 18.95                 | 18.71                 | 18.54                 | 18.56                 |                              | 3        |
|                                 | 36      | 0         | 19.04                 | 19.02                 | 19.14                 | 18.28                 | 18.90                 |                              | 3        |
|                                 | 36      | 18        | 19.00                 | 18.93                 | 18.83                 | 18.36                 | 18.61                 |                              | 3        |
|                                 | 36      | 37        | 18.91                 | 18.80                 | 18.93                 | 18.31                 | 18.66                 |                              | 3        |
|                                 | 75      | 0         | 18.93                 | 18.89                 | 18.72                 | 18.26                 | 18.65                 |                              | 3        |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 129 of 305                                                                       |                                        |

**Table 9-99**  
**LTE Band 41 PC3 Measured  $P_{limit}$  for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 10 MHz Bandwidth**

| LTE Band 41<br>10 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 22.16                 | 21.87                 | 21.82                 | 21.74                 | 21.53                 | 0                            | 0        |
|                                 | 1       | 25        | 22.05                 | 22.13                 | 22.08                 | 22.01                 | 21.75                 |                              | 0        |
|                                 | 1       | 49        | 21.97                 | 21.85                 | 21.82                 | 21.72                 | 21.49                 |                              | 0        |
|                                 | 25      | 0         | 21.95                 | 22.06                 | 22.00                 | 21.88                 | 21.80                 | 0-1                          | 0        |
|                                 | 25      | 12        | 22.03                 | 22.11                 | 22.10                 | 21.99                 | 21.87                 |                              | 0        |
|                                 | 25      | 25        | 21.99                 | 22.00                 | 22.07                 | 21.94                 | 21.74                 |                              | 0        |
|                                 | 50      | 0         | 22.01                 | 22.04                 | 22.02                 | 21.86                 | 21.78                 |                              | 0        |
| 16QAM                           | 1       | 0         | 22.23                 | 21.97                 | 21.99                 | 21.63                 | 21.66                 | 0-1                          | 0        |
|                                 | 1       | 25        | 22.12                 | 22.09                 | 22.32                 | 21.80                 | 21.86                 |                              | 0        |
|                                 | 1       | 49        | 22.12                 | 21.90                 | 21.94                 | 21.58                 | 21.63                 |                              | 0        |
|                                 | 25      | 0         | 21.98                 | 21.96                 | 22.07                 | 21.80                 | 21.80                 | 0-2                          | 0        |
|                                 | 25      | 12        | 22.11                 | 22.17                 | 22.13                 | 21.92                 | 21.85                 |                              | 0        |
|                                 | 25      | 25        | 22.08                 | 22.07                 | 22.15                 | 21.88                 | 21.78                 |                              | 0        |
|                                 | 50      | 0         | 21.93                 | 22.01                 | 22.03                 | 21.85                 | 21.77                 |                              | 0        |
| 64QAM                           | 1       | 0         | 22.28                 | 21.82                 | 21.64                 | 21.43                 | 21.39                 | 0-2                          | 0        |
|                                 | 1       | 25        | 22.35                 | 22.14                 | 21.97                 | 21.74                 | 21.59                 |                              | 0        |
|                                 | 1       | 49        | 22.32                 | 21.64                 | 21.69                 | 21.49                 | 21.34                 |                              | 0        |
|                                 | 25      | 0         | 21.23                 | 21.29                 | 21.45                 | 21.31                 | 21.20                 | 0-3                          | 1        |
|                                 | 25      | 12        | 21.43                 | 21.49                 | 21.48                 | 21.39                 | 21.28                 |                              | 1        |
|                                 | 25      | 25        | 21.36                 | 21.20                 | 21.44                 | 21.35                 | 21.14                 |                              | 1        |
|                                 | 50      | 0         | 21.35                 | 21.44                 | 21.43                 | 21.30                 | 21.16                 |                              | 1        |
| 256QAM                          | 1       | 0         | 18.80                 | 18.51                 | 18.99                 | 18.94                 | 18.61                 | 0-5                          | 3        |
|                                 | 1       | 25        | 19.06                 | 18.89                 | 19.20                 | 19.25                 | 18.85                 |                              | 3        |
|                                 | 1       | 49        | 18.85                 | 18.75                 | 19.01                 | 19.01                 | 18.60                 |                              | 3        |
|                                 | 25      | 0         | 18.86                 | 19.01                 | 18.97                 | 18.78                 | 19.02                 |                              | 3        |
|                                 | 25      | 12        | 18.99                 | 19.13                 | 19.01                 | 18.86                 | 19.04                 |                              | 3        |
|                                 | 25      | 25        | 18.89                 | 18.95                 | 19.01                 | 18.81                 | 18.92                 |                              | 3        |
|                                 | 50      | 0         | 18.96                 | 19.06                 | 19.00                 | 18.75                 | 18.98                 |                              | 3        |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 130 of 305                                                                       |                                        |

**Table 9-100**  
**LTE Band 41 PC3 Measured  $P_{limit}$  for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 5 MHz Bandwidth**

| LTE Band 41<br>5 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                              |          |   |
|--------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|---|
| Modulation                     | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |   |
|                                |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                              |          |   |
|                                |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                              |          |   |
| QPSK                           | 1       | 0         | 22.04                 | 21.99                 | 22.12                 | 21.79                 | 21.85                 | 0                            | 0        |   |
|                                | 1       | 12        | 22.02                 | 22.04                 | 22.14                 | 21.88                 | 21.83                 |                              | 0-1      | 0 |
|                                | 1       | 24        | 22.08                 | 22.04                 | 22.15                 | 21.81                 | 21.82                 |                              |          | 0 |
|                                | 12      | 0         | 22.03                 | 22.11                 | 22.11                 | 21.93                 | 21.82                 | 0                            |          |   |
|                                | 12      | 6         | 22.07                 | 22.14                 | 22.17                 | 22.02                 | 21.86                 | 0-1                          |          | 0 |
|                                | 12      | 13        | 22.03                 | 22.09                 | 22.15                 | 21.97                 | 21.83                 |                              | 0        |   |
|                                | 25      | 0         | 22.06                 | 22.12                 | 22.10                 | 21.96                 | 21.86                 |                              | 0        |   |
| 16QAM                          | 1       | 0         | 22.39                 | 22.14                 | 22.45                 | 21.93                 | 22.18                 | 0-1                          | 0        |   |
|                                | 1       | 12        | 22.35                 | 22.15                 | 22.49                 | 21.89                 | 22.18                 |                              | 0-2      | 0 |
|                                | 1       | 24        | 22.46                 | 22.18                 | 22.48                 | 21.88                 | 22.16                 |                              |          | 0 |
|                                | 12      | 0         | 22.05                 | 22.07                 | 22.07                 | 22.00                 | 21.80                 | 0                            |          |   |
|                                | 12      | 6         | 22.07                 | 22.10                 | 22.13                 | 22.08                 | 21.85                 | 0-2                          |          | 0 |
|                                | 12      | 13        | 22.02                 | 22.14                 | 22.14                 | 22.06                 | 21.77                 |                              | 0        |   |
|                                | 25      | 0         | 22.01                 | 22.13                 | 22.06                 | 21.94                 | 21.82                 |                              | 0        |   |
| 64QAM                          | 1       | 0         | 22.16                 | 22.31                 | 22.27                 | 22.31                 | 22.01                 | 0-2                          | 0        |   |
|                                | 1       | 12        | 22.16                 | 22.33                 | 22.33                 | 22.38                 | 22.00                 |                              | 0-3      | 0 |
|                                | 1       | 24        | 22.23                 | 22.29                 | 22.31                 | 22.34                 | 21.95                 |                              |          | 0 |
|                                | 12      | 0         | 21.43                 | 21.47                 | 21.46                 | 21.23                 | 21.20                 | 0-3                          |          | 1 |
|                                | 12      | 6         | 21.38                 | 21.45                 | 21.51                 | 21.34                 | 21.21                 |                              |          | 1 |
|                                | 12      | 13        | 21.39                 | 21.46                 | 21.50                 | 21.26                 | 21.17                 |                              | 1        |   |
|                                | 25      | 0         | 21.37                 | 21.41                 | 21.41                 | 21.26                 | 21.09                 |                              | 1        |   |
| 256QAM                         | 1       | 0         | 18.75                 | 18.53                 | 18.86                 | 18.42                 | 18.62                 | 0-5                          | 3        |   |
|                                | 1       | 12        | 18.79                 | 18.57                 | 18.91                 | 18.50                 | 18.59                 |                              | 3        |   |
|                                | 1       | 24        | 18.82                 | 18.58                 | 18.89                 | 18.42                 | 18.56                 |                              | 3        |   |
|                                | 12      | 0         | 18.57                 | 18.53                 | 18.71                 | 18.55                 | 18.45                 |                              | 3        |   |
|                                | 12      | 6         | 18.56                 | 18.52                 | 18.75                 | 18.68                 | 18.42                 |                              | 3        |   |
|                                | 12      | 13        | 18.54                 | 18.54                 | 18.72                 | 18.58                 | 18.40                 |                              | 3        |   |
|                                | 25      | 0         | 18.63                 | 18.52                 | 18.73                 | 18.66                 | 18.47                 |                              | 3        |   |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 131 of 305                                                                       |                                        |

**Table 9-101**  
**LTE Band 41 PC2 Measured  $P_{limit}$  for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 20 MHz Bandwidth**

| LTE Band 41<br>20 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                              |          |
|---------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                      | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                 |         |           | 39750<br>(2506.0 MHz) | 40185<br>(2549.5 MHz) | 40620<br>(2593.0 MHz) | 41055<br>(2636.5 MHz) | 41490<br>(2680.0 MHz) |                              |          |
|                                 |         |           | Conducted Power [dBm] |                       |                       |                       |                       |                              |          |
| QPSK                            | 1       | 0         | 23.95                 | 23.88                 | 23.56                 | 23.67                 | 23.66                 | 0                            | 0        |
|                                 | 1       | 50        | 24.05                 | 23.90                 | 23.99                 | 23.98                 | 24.03                 |                              | 0        |
|                                 | 1       | 99        | 23.94                 | 23.95                 | 23.66                 | 23.46                 | 23.93                 |                              | 0        |
|                                 | 50      | 0         | 24.07                 | 24.00                 | 23.98                 | 23.97                 | 23.80                 | 0-1                          | 0        |
|                                 | 50      | 25        | 24.19                 | 24.06                 | 24.13                 | 24.10                 | 24.02                 |                              | 0        |
|                                 | 50      | 50        | 24.14                 | 24.06                 | 24.11                 | 24.01                 | 24.01                 |                              | 0        |
|                                 | 100     | 0         | 24.00                 | 23.97                 | 23.98                 | 24.03                 | 23.95                 |                              | 0        |
|                                 |         |           |                       |                       |                       |                       |                       |                              |          |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 132 of 305                                                                       |                                        |

## 9.4.13 LTE Uplink Carrier Aggregation Conducted Powers

Table 9-102

LTE Uplink Carrier Aggregation Measured  $P_{max}$  for  
 LTE Band 5/66/48/41 DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) or  
 LTE Band 5/66/41 DSI = 2 (Head) or LTE Band 5/48 DSI = 1 (Phablet with grip sensor triggered),  
 and/or DSI = 4 (Earjack Active) and/or DSI = 3 (Hotspot mode)

|             | PCC         |                     |                     |                             |                |                        |                  |             |                     | SCC                 |                             |                  |                          |                  |                                       |                                   |            |                  | Power                                 |                                   |
|-------------|-------------|---------------------|---------------------|-----------------------------|----------------|------------------------|------------------|-------------|---------------------|---------------------|-----------------------------|------------------|--------------------------|------------------|---------------------------------------|-----------------------------------|------------|------------------|---------------------------------------|-----------------------------------|
| Combination | PCC Band    | PCC Bandwidth [MHz] | PCC UL Channel      | PCC UL Frequency [MHz]      | PCC DL Channel | PCC DL Frequency [MHz] | Modulation       | PCC UL# RB  | PCC UL RB Offset    | SCC Band            | SCC Bandwidth [MHz]         | SCC UL Channel   | SCC UL Frequency [MHz]   | SCC DL Channel   | SCC DL Frequency [MHz]                | Modulation                        | SCC UL# RB | SCC UL RB Offset | LTE Tx.Power with UL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA_5B       | LTE B5      | 10                  | 20525               | 836.5                       | 2525           | 881.5                  | QPSK             | 1           | 0                   | LTE B5              | 5                           | 20453            | 829.3                    | 2453             | 874.3                                 | QPSK                              | 1          | 24               | 25.35                                 | 25.15                             |
|             | PCC         |                     |                     |                             |                |                        |                  |             |                     | SCC                 |                             |                  |                          |                  |                                       |                                   |            |                  | Power                                 |                                   |
| Combination | PCC Band    | PCC Bandwidth [MHz] | PCC (UL) Channel    | PCC (UL) Frequency [MHz]    | PCC DL Channel | PCC DL Frequency [MHz] | Modulation       | PCC UL# RB  | PCC UL RB Offset    | SCC Band            | SCC Bandwidth [MHz]         | SCC (UL) Channel | SCC (UL) Frequency [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz]              | Modulation                        | SCC UL# RB | SCC UL RB Offset | LTE Tx.Power with UL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA_66C      | LTE B66     | 20                  | 132072              | 1720.0                      | 66536          | 2120.0                 | QPSK             | 1           | 99                  | LTE B66             | 20                          | 132270           | 1739.8                   | 66734            | 2139.8                                | QPSK                              | 1          | 0                | 24.15                                 | 23.50                             |
| CA_66C      | LTE B66     | 20                  | 132322              | 1745.0                      | 66786          | 2145.0                 | QPSK             | 1           | 0                   | LTE B66             | 20                          | 132124           | 1725.2                   | 66588            | 2125.2                                | QPSK                              | 1          | 99               | 24.11                                 | 23.35                             |
| CA_66B      | LTE B66     | 10                  | 132022              | 1715.0                      | 66486          | 2115.0                 | QPSK             | 1           | 49                  | LTE B66             | 10                          | 132121           | 1724.9                   | 66585            | 2124.9                                | QPSK                              | 1          | 0                | 24.13                                 | 23.61                             |
| CA_66B      | LTE B66     | 10                  | 132322              | 1745.0                      | 66786          | 2145.0                 | QPSK             | 1           | 0                   | LTE B66             | 10                          | 132223           | 1735.1                   | 66687            | 2135.1                                | QPSK                              | 1          | 49               | 23.92                                 | 23.49                             |
|             | PCC         |                     |                     |                             |                |                        |                  |             |                     | SCC                 |                             |                  |                          |                  |                                       |                                   |            |                  | Power                                 |                                   |
| Combination | PCC Band    | PCC Bandwidth [MHz] | PCC (UL/DL) Channel | PCC (UL/DL) Frequency [MHz] | Modulation     | PCC UL# RB             | PCC UL RB Offset | SCC Band    | SCC Bandwidth [MHz] | SCC (UL/DL) Channel | SCC (UL/DL) Frequency [MHz] | Modulation       | SCC UL# RB               | SCC UL RB Offset | LTE Tx.Power with UL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |            |                  |                                       |                                   |
| CA_48C      | LTE B48     | 20                  | 55773               | 3603.3                      | QPSK           | 1                      | 0                | LTE B48     | 20                  | 55575               | 3583.5                      | QPSK             | 1                        | 99               | 24.89                                 | 24.29                             |            |                  |                                       |                                   |
| CA_48C      | LTE B48     | 20                  | 56640               | 3690.0                      | QPSK           | 1                      | 0                | LTE B48     | 20                  | 56442               | 3670.2                      | QPSK             | 1                        | 99               | 24.78                                 | 24.17                             |            |                  |                                       |                                   |
|             | PCC         |                     |                     |                             |                |                        |                  |             |                     | SCC                 |                             |                  |                          |                  |                                       |                                   |            |                  | Power                                 |                                   |
| Combination | PCC Band    | PCC Bandwidth [MHz] | PCC (UL/DL) Channel | PCC (UL/DL) Frequency [MHz] | Modulation     | PCC UL# RB             | PCC UL RB Offset | SCC Band    | SCC Bandwidth [MHz] | SCC (UL/DL) Channel | SCC (UL/DL) Frequency [MHz] | Modulation       | SCC UL# RB               | SCC UL RB Offset | LTE Tx.Power with UL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |            |                  |                                       |                                   |
| CA_41C      | LTE B41     | 20                  | 39750               | 2506.0                      | QPSK           | 1                      | 99               | LTE B41     | 20                  | 39948               | 2525.8                      | QPSK             | 1                        | 0                | 24.41                                 | 24.11                             |            |                  |                                       |                                   |
|             | PCC         |                     |                     |                             |                |                        |                  |             |                     | SCC                 |                             |                  |                          |                  |                                       |                                   |            |                  | Power                                 |                                   |
| Combination | PCC Band    | PCC Bandwidth [MHz] | PCC (UL/DL) Channel | PCC (UL/DL) Frequency [MHz] | Modulation     | PCC UL# RB             | PCC UL RB Offset | SCC Band    | SCC Bandwidth [MHz] | SCC (UL/DL) Channel | SCC (UL/DL) Frequency [MHz] | Modulation       | SCC UL# RB               | SCC UL RB Offset | LTE Tx.Power with UL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |            |                  |                                       |                                   |
| CA_41C      | LTE B41 PC2 | 20                  | 39750               | 2506.0                      | QPSK           | 1                      | 99               | LTE B41 PC2 | 20                  | 39948               | 2525.8                      | QPSK             | 1                        | 0                | 27.15                                 | 26.72                             |            |                  |                                       |                                   |

Table 9-103

LTE Uplink Carrier Aggregation Measured  $P_{limit}$  for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active)

|             | PCC         |                     |                     |                             |                |                        |                  |             |                     |                     | SCC                         |                  |                          |                  |                                       |                                   |            |                  |                                       |                                   | Power |  |
|-------------|-------------|---------------------|---------------------|-----------------------------|----------------|------------------------|------------------|-------------|---------------------|---------------------|-----------------------------|------------------|--------------------------|------------------|---------------------------------------|-----------------------------------|------------|------------------|---------------------------------------|-----------------------------------|-------|--|
| Combination | PCC Band    | PCC Bandwidth [MHz] | PCC (UL) Channel    | PCC (UL) Frequency [MHz]    | PCC DL Channel | PCC DL Frequency [MHz] | Modulation       | PCC UL# RB  | PCC UL RB Offset    | SCC Band            | SCC Bandwidth [MHz]         | SCC (UL) Channel | SCC (UL) Frequency [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz]              | Modulation                        | SCC UL# RB | SCC UL RB Offset | LTE Tx.Power with UL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |  |
| CA_66C      | LTE B66     | 20                  | 132072              | 1720                        | 66536          | 2120                   | QPSK             | 100         | 0                   | LTE B66             | 20                          | 132270           | 1739.8                   | 66734            | 2139.8                                | QPSK                              | 100        | 0                | 20.50                                 | 20.43                             |       |  |
| CA_66B      | LTE B66     | 10                  | 132022              | 1715                        | 66486          | 2115                   | QPSK             | 50          | 0                   | LTE B66             | 10                          | 132121           | 1724.9                   | 66585            | 2124.9                                | QPSK                              | 50         | 0                | 20.46                                 | 20.47                             |       |  |
|             | PCC         |                     |                     |                             |                |                        |                  |             |                     |                     | SCC                         |                  |                          |                  |                                       |                                   |            |                  |                                       |                                   | Power |  |
| Combination | PCC Band    | PCC Bandwidth [MHz] | PCC (UL/DL) Channel | PCC (UL/DL) Frequency [MHz] | Modulation     | PCC UL# RB             | PCC UL RB Offset | SCC Band    | SCC Bandwidth [MHz] | SCC (UL/DL) Channel | SCC (UL/DL) Frequency [MHz] | Modulation       | SCC UL# RB               | SCC UL RB Offset | LTE Tx.Power with UL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |            |                  |                                       |                                   |       |  |
| CA_41C      | LTE B41     | 20                  | 41055               | 2636.5                      | QPSK           | 50                     | 0                | LTE B41     | 20                  | 40857               | 2616.7                      | QPSK             | 50                       | 50               | 22.58                                 | 22.31                             |            |                  |                                       |                                   |       |  |
|             | PCC         |                     |                     |                             |                |                        |                  |             |                     |                     | SCC                         |                  |                          |                  |                                       |                                   |            |                  |                                       |                                   | Power |  |
| Combination | PCC Band    | PCC Bandwidth [MHz] | PCC (UL/DL) Channel | PCC (UL/DL) Frequency [MHz] | Modulation     | PCC UL# RB             | PCC UL RB Offset | SCC Band    | SCC Bandwidth [MHz] | SCC (UL/DL) Channel | SCC (UL/DL) Frequency [MHz] | Modulation       | SCC UL# RB               | SCC UL RB Offset | LTE Tx.Power with UL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |            |                  |                                       |                                   |       |  |
| CA_41C      | LTE B41 PC2 | 20                  | 41055               | 2636.5                      | QPSK           | 50                     | 0                | LTE B41 PC2 | 20                  | 40857               | 2616.7                      | QPSK             | 50                       | 50               | 24.47                                 | 23.97                             |            |                  |                                       |                                   |       |  |

|                                      |                                                                                                                                                                                                           |                               |                                                                                       |                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  PCTEST<br>Proud to be part of the  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                        | DUT Type:<br>Portable Handset |                                                                                       | Page 133 of 305                 |

**Table 9-104**  
**LTE Uplink Carrier Aggregation Measured  $P_{limit}$  for DSI = 2 (Head)**

| Combination | PCC      |                     |                     |                             |            |            |                  | SCC      |                     |                     |                             |            |            |                  | Power                                 |                                   |
|-------------|----------|---------------------|---------------------|-----------------------------|------------|------------|------------------|----------|---------------------|---------------------|-----------------------------|------------|------------|------------------|---------------------------------------|-----------------------------------|
|             | PCC Band | PCC Bandwidth [MHz] | PCC (UL/DL) Channel | PCC (UL/DL) Frequency [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | SCC Band | SCC Bandwidth [MHz] | SCC (UL/DL) Channel | SCC (UL/DL) Frequency [MHz] | Modulation | SCC UL# RB | SCC UL RB Offset | LTE Tx.Power with UL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA_48C      | LTE B48  | 20                  | 56207               | 3646.7                      | QPSK       | 50         | 0                | LTE B48  | 20                  | 56009               | 3626.9                      | QPSK       | 50         | 50               | 18.77                                 | 18.45                             |

**Table 9-105**  
**LTE Uplink Carrier Aggregation Measured  $P_{limit}$  for DSI = 3 (Hotspot mode)**

|             | PCC         |                     |                     |                             |                |                        |                  |             | SCC                 |                     |                             |                  |                          |                  |                                       |                                   | Power      |                  |                                       |                                   |
|-------------|-------------|---------------------|---------------------|-----------------------------|----------------|------------------------|------------------|-------------|---------------------|---------------------|-----------------------------|------------------|--------------------------|------------------|---------------------------------------|-----------------------------------|------------|------------------|---------------------------------------|-----------------------------------|
| Combination | PCC Band    | PCC Bandwidth [MHz] | PCC (UL) Channel    | PCC (UL) Frequency [MHz]    | PCC DL Channel | PCC DL Frequency [MHz] | Modulation       | PCC UL# RB  | PCC UL RB Offset    | SCC Band            | SCC Bandwidth [MHz]         | SCC (UL) Channel | SCC (UL) Frequency [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz]              | Modulation                        | SCC UL# RB | SCC UL RB Offset | LTE Tx.Power with UL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA_66C      | LTE B66     | 20                  | 132572              | 1770.0                      | 67036          | 2170.0                 | QPSK             | 1           | 0                   | LTE B66             | 20                          | 132374           | 1750.2                   | 66838            | 2150.2                                | QPSK                              | 1          | 99               | 19.55                                 | 19.37                             |
| CA_66B      | LTE B66     | 10                  | 132622              | 1775.0                      | 67086          | 2175.0                 | QPSK             | 1           | 0                   | LTE B66             | 10                          | 132523           | 1765.1                   | 66987            | 2165.1                                | QPSK                              | 1          | 49               | 19.30                                 | 19.33                             |
|             | PCC         |                     |                     |                             |                |                        |                  |             | SCC                 |                     |                             |                  |                          |                  |                                       |                                   | Power      |                  |                                       |                                   |
| Combination | PCC Band    | PCC Bandwidth [MHz] | PCC (UL/DL) Channel | PCC (UL/DL) Frequency [MHz] | Modulation     | PCC UL# RB             | PCC UL RB Offset | SCC Band    | SCC Bandwidth [MHz] | SCC (UL/DL) Channel | SCC (UL/DL) Frequency [MHz] | Modulation       | SCC UL# RB               | SCC UL RB Offset | LTE Tx.Power with UL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |            |                  |                                       |                                   |
| CA_41C      | LTE B41     | 20                  | 39750               | 2506.0                      | QPSK           | 1                      | 99               | LTE B41     | 20                  | 39948               | 2525.8                      | QPSK             | 1                        | 0                | 21.25                                 | 21.36                             |            |                  |                                       |                                   |
|             | PCC         |                     |                     |                             |                |                        |                  |             | SCC                 |                     |                             |                  |                          |                  |                                       |                                   | Power      |                  |                                       |                                   |
| Combination | PCC Band    | PCC Bandwidth [MHz] | PCC (UL/DL) Channel | PCC (UL/DL) Frequency [MHz] | Modulation     | PCC UL# RB             | PCC UL RB Offset | SCC Band    | SCC Bandwidth [MHz] | SCC (UL/DL) Channel | SCC (UL/DL) Frequency [MHz] | Modulation       | SCC UL# RB               | SCC UL RB Offset | LTE Tx.Power with UL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |            |                  |                                       |                                   |
| CA_41C      | LTE B41 PC2 | 20                  | 39750               | 2506.0                      | QPSK           | 1                      | 99               | LTE B41 PC2 | 20                  | 39948               | 2525.8                      | QPSK             | 1                        | 0                | 23.06                                 | 23.00                             |            |                  |                                       |                                   |

**Notes:**

1. This device supports uplink carrier aggregation for LTE CA\_5B, LTE CA\_66B, LTE CA\_66C, LTE CA\_48C, and LTE CA\_41C with a maximum of two component carriers. For intraband contiguous carrier aggregation scenarios, 3GPP 36.101 Table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when non-contiguous RB allocation is implemented. The conducted powers and MPR settings in this device are permanently implemented per the above 3GPP requirements.
2. Per FCC Guidance, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.



**Figure 9-4**  
**Power Measurement Setup**

|                                             |                                                                                                                                       |                                      |                                                                                       |                                        |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          | <br><small>Proud to be part of the ELEMENT</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                             | <b>DUT Type:</b><br>Portable Handset | Page 134 of 305                                                                       |                                        |

## 9.5 NR Conducted Powers

### 9.5.1

### NR Band n71

Table 9-106  
NR Band n71 Measured  $P_{\max}$  for all DSI - 20 MHz Bandwidth

| NR Band n71<br>20 MHz Bandwidth |         |           |                                                   |                                    |             |
|---------------------------------|---------|-----------|---------------------------------------------------|------------------------------------|-------------|
| Modulation                      | RB Size | RB Offset | Channel                                           | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
|                                 |         |           | 136100<br>(680.5 MHz)<br>Conducted<br>Power [dBm] |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 24.81                                             | 0                                  | 0           |
|                                 | 1       | 53        | 24.85                                             |                                    | 0           |
|                                 | 1       | 104       | 24.48                                             |                                    | 0           |
|                                 | 50      | 0         | 24.23                                             | 0-0.5                              | 0.5         |
|                                 | 50      | 28        | 24.65                                             | 0                                  | 0           |
|                                 | 50      | 56        | 24.06                                             | 0-0.5                              | 0.5         |
|                                 | 100     | 0         | 24.13                                             |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 24.88                                             | 0                                  | 0           |
|                                 | 1       | 53        | <b>25.05</b>                                      |                                    | 0           |
|                                 | 1       | 104       | 24.52                                             |                                    | 0           |
|                                 | 50      | 0         | 23.85                                             | 0-1                                | 1           |
|                                 | 50      | 28        | <b>24.66</b>                                      | 0                                  | 0           |
|                                 | 50      | 56        | 23.58                                             | 0-1                                | 1           |
|                                 | 100     | 0         | 23.75                                             |                                    | 1           |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 24.01                                             | 0-1                                | 1           |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.41                                             | 0-1.5                              | 1.5         |

Note: NR Band n71 at 20 MHz bandwidth does not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

|                                      |                                                                                                                                                                                                                        |                               |                                                                                       |                                 |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br>Proud to be part of  ecosystem | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                     | DUT Type:<br>Portable Handset |                                                                                       | Page 135 of 305                 |

**Table 9-107**  
**NR Band n71 Measured  $P_{max}$  for all DSI - 15 MHz Bandwidth**  
**NR Band n71**  
**15 MHz Bandwidth**

| NR Band n71<br>15 MHz Bandwidth |         |           |                                                       |                                    |             |
|---------------------------------|---------|-----------|-------------------------------------------------------|------------------------------------|-------------|
| Modulation                      | RB Size | RB Offset | Channel                                               | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
|                                 |         |           | 136100<br>(680.5 MHz)<br><br>Conducted<br>Power [dBm] |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 24.84                                                 | 0                                  | 0           |
|                                 | 1       | 40        | 24.72                                                 |                                    | 0           |
|                                 | 1       | 77        | 24.61                                                 |                                    | 0           |
|                                 | 36      | 0         | 24.32                                                 | 0-0.5                              | 0.5         |
|                                 | 36      | 22        | 24.63                                                 | 0                                  | 0           |
|                                 | 36      | 43        | 24.05                                                 | 0-0.5                              | 0.5         |
|                                 | 75      | 0         | 24.19                                                 |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 24.83                                                 | 0                                  | 0           |
|                                 | 1       | 40        | 24.70                                                 |                                    | 0           |
|                                 | 1       | 77        | 24.55                                                 |                                    | 0           |
|                                 | 36      | 0         | 23.91                                                 | 0-1                                | 1           |
|                                 | 36      | 22        | 24.65                                                 | 0                                  | 0           |
|                                 | 36      | 43        | 23.66                                                 | 0-1                                | 1           |
|                                 | 75      | 0         | 23.75                                                 |                                    | 1           |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 24.07                                                 | 0-1                                | 1           |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.57                                                 | 0-1.5                              | 1.5         |

Note: NR Band n71 at 15 MHz bandwidth does not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

|                                             |                                                                                                                                                                                                                               |                                      |                                        |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>         | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                     | <b>DUT Type:</b><br>Portable Handset | Page 136 of 305                        |



**Table 9-108**  
**NR Band n71 Measured  $P_{\max}$  for all DSI - 10 MHz Bandwidth**  
**NR Band n71**  
**10 MHz Bandwidth**

|                            |         |           | Channel               |                       |                     | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
|----------------------------|---------|-----------|-----------------------|-----------------------|---------------------|------------------------------------|-------------|
| Modulation                 | RB Size | RB Offset | 133600<br>(668 MHz)   | 136100<br>(680.5 MHz) | 138600<br>(693 MHz) |                                    |             |
|                            |         |           | Conducted Power [dBm] |                       |                     |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK | 1       | 1         | 24.91                 | 24.83                 | 24.43               | 0                                  | 0           |
|                            | 1       | 26        | 25.08                 | 24.87                 | 24.46               |                                    | 0           |
|                            | 1       | 50        | 24.79                 | 24.61                 | 24.12               |                                    | 0           |
|                            | 25      | 0         | 24.53                 | 24.35                 | 23.86               | 0-0.5                              | 0.5         |
|                            | 25      | 14        | 24.92                 | 24.68                 | 24.30               | 0                                  | 0           |
|                            | 25      | 27        | 24.31                 | 24.13                 | 23.69               | 0-0.5                              | 0.5         |
|                            | 50      | 0         | 24.44                 | 24.23                 | 23.80               |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK         | 1       | 1         | 24.93                 | 24.82                 | 24.39               | 0                                  | 0           |
|                            | 1       | 26        | 25.06                 | 24.80                 | 24.43               |                                    | 0           |
|                            | 1       | 50        | 24.70                 | 24.65                 | 24.27               |                                    | 0           |
|                            | 25      | 0         | 24.09                 | 23.93                 | 23.49               | 0-1                                | 1           |
|                            | 25      | 14        | 24.88                 | 24.68                 | 24.32               | 0                                  | 0           |
|                            | 25      | 27        | 23.88                 | 23.70                 | 23.31               | 0-1                                | 1           |
|                            | 50      | 0         | 24.02                 | 23.85                 | 23.45               |                                    | 1           |
| DFT-s-OFDM<br>16QAM        | 1       | 1         | 23.90                 | 24.03                 | 23.63               | 0-1                                | 1           |
| CP-OFDM<br>QPSK            | 1       | 1         | 23.39                 | 23.36                 | 23.00               | 0-1.5                              | 1.5         |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 137 of 305                                                                       |                                        |

**Table 9-109**  
**NR Band n71 Measured P<sub>max</sub> for all DSI - 5 MHz Bandwidth**

| NR Band n71<br>5 MHz Bandwidth |         |           |                       |                       |                       |                                    |             |
|--------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------------|-------------|
|                                |         |           | Channel               |                       |                       | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                     | RB Size | RB Offset | 133100<br>(665.5 MHz) | 136100<br>(680.5 MHz) | 139100<br>(695.5 MHz) |                                    |             |
|                                |         |           | Conducted Power [dBm] |                       |                       |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK     | 1       | 1         | 25.00                 | 24.84                 | 24.40                 | 0                                  | 0           |
|                                | 1       | 13        | 24.88                 | 24.78                 | 24.29                 |                                    | 0           |
|                                | 1       | 23        | 24.79                 | 24.64                 | 24.18                 |                                    | 0           |
|                                | 12      | 0         | 24.47                 | 24.22                 | 23.90                 | 0-0.5                              | 0.5         |
|                                | 12      | 7         | 24.89                 | 24.70                 | 24.14                 | 0                                  | 0           |
|                                | 12      | 13        | 24.21                 | 24.17                 | 23.63                 | 0-0.5                              | 0.5         |
|                                | 25      | 0         | 24.43                 | 24.18                 | 23.71                 |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK             | 1       | 1         | 24.87                 | 24.84                 | 24.42                 | 0                                  | 0           |
|                                | 1       | 13        | 24.77                 | 24.80                 | 24.38                 |                                    | 0           |
|                                | 1       | 23        | 24.85                 | 24.72                 | 24.18                 |                                    | 0           |
|                                | 12      | 0         | 23.97                 | 23.77                 | 23.43                 | 0-1                                | 1           |
|                                | 12      | 7         | 24.87                 | 24.74                 | 24.34                 | 0                                  | 0           |
|                                | 12      | 13        | 23.88                 | 23.73                 | 23.30                 | 0-1                                | 1           |
|                                | 25      | 0         | 23.95                 | 23.76                 | 23.37                 |                                    | 1           |
| DFT-s-OFDM<br>16QAM            | 1       | 1         | 24.06                 | 24.03                 | 23.61                 | 0-1                                | 1           |
| CP-OFDM<br>QPSK                | 1       | 1         | 23.62                 | 23.43                 | 22.91                 | 0-1.5                              | 1.5         |

|                                      |                                                                                                                                                       |                               |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                    | DUT Type:<br>Portable Handset | Page 138 of 305                                                                       |                                 |

### 9.5.1

### NR Band n12

Table 9-110  
NR Band n12 Measured  $P_{\max}$  for all DSI - 15 MHz Bandwidth

| NR Band n12<br>15 MHz Bandwidth |         |           |                                                       |                                    |             |
|---------------------------------|---------|-----------|-------------------------------------------------------|------------------------------------|-------------|
| Modulation                      | RB Size | RB Offset | Channel                                               | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
|                                 |         |           | 141500<br>(707.5 MHz)<br><br>Conducted<br>Power [dBm] |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 24.51                                                 | 0                                  | 0           |
|                                 | 1       | 40        | 24.72                                                 |                                    | 0           |
|                                 | 1       | 77        | 24.88                                                 |                                    | 0           |
|                                 | 36      | 0         | 23.83                                                 | 0-0.5                              | 0.5         |
|                                 | 36      | 22        | 24.48                                                 | 0                                  | 0           |
|                                 | 36      | 43        | 24.06                                                 | 0-0.5                              | 0.5         |
|                                 | 75      | 0         | 23.91                                                 |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 24.46                                                 | 0                                  | 0           |
|                                 | 1       | 40        | 24.64                                                 |                                    | 0           |
|                                 | 1       | 77        | <b>24.78</b>                                          |                                    | 0           |
|                                 | 36      | 0         | 23.49                                                 | 0-1                                | 1           |
|                                 | 36      | 22        | <b>24.54</b>                                          | 0                                  | 0           |
|                                 | 36      | 43        | 23.66                                                 | 0-1                                | 1           |
|                                 | 75      | 0         | 23.60                                                 |                                    | 1           |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.49                                                 | 0-1                                | 1           |
| CP-OFDM<br>QPSK                 | 1       | 1         | 22.95                                                 | 0-1.5                              | 1.5         |

Note: NR Band n12 at 15 MHz bandwidth does not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

|                                      |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
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| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 139 of 305                 |

**Table 9-111**  
**NR Band n12 Measured P<sub>max</sub> for all DSI – 10 MHz Bandwidth**  
**NR Band n12**  
**10 MHz Bandwidth**

| NR Band n12<br>10 MHz Bandwidth |         |           |                                                       |                                    |             |
|---------------------------------|---------|-----------|-------------------------------------------------------|------------------------------------|-------------|
| Modulation                      | RB Size | RB Offset | Channel                                               | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
|                                 |         |           | 141500<br>(707.5 MHz)<br><br>Conducted<br>Power [dBm] |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 24.41                                                 | 0                                  | 0           |
|                                 | 1       | 26        | 24.71                                                 |                                    | 0           |
|                                 | 1       | 50        | 24.66                                                 |                                    | 0           |
|                                 | 25      | 0         | 23.92                                                 | 0-0.5                              | 0.5         |
|                                 | 25      | 14        | 24.47                                                 | 0                                  | 0           |
|                                 | 25      | 27        | 23.97                                                 | 0-0.5                              | 0.5         |
|                                 | 50      | 0         | 23.97                                                 |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 24.26                                                 | 0                                  | 0           |
|                                 | 1       | 26        | 24.53                                                 |                                    | 0           |
|                                 | 1       | 50        | 24.43                                                 |                                    | 0           |
|                                 | 25      | 0         | 23.52                                                 | 0-1                                | 1           |
|                                 | 25      | 14        | 24.40                                                 | 0                                  | 0           |
|                                 | 25      | 27        | 23.62                                                 | 0-1                                | 1           |
|                                 | 50      | 0         | 23.53                                                 |                                    | 1           |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.45                                                 | 0-1                                | 1           |
| CP-OFDM<br>QPSK                 | 1       | 1         | 22.78                                                 | 0-1.5                              | 1.5         |

Note: NR Band n12 at 10 MHz bandwidth does not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

|                                             |                                                                                                                                                                                                                               |                                      |                                        |
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| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                     | <b>DUT Type:</b><br>Portable Handset | Page 140 of 305                        |

**Table 9-112**  
**NR Band n12 Measured P<sub>max</sub> for all DSI – 5 MHz Bandwidth**

| NR Band n12<br>5 MHz Bandwidth |         |           |                       |                       |                       |                                    |             |
|--------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------------|-------------|
|                                |         |           | Channel               |                       |                       | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                     | RB Size | RB Offset | 140300<br>(701.5 MHz) | 141500<br>(707.5 MHz) | 142700<br>(713.5 MHz) |                                    |             |
|                                |         |           | Conducted Power [dBm] |                       |                       |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK     | 1       | 1         | 24.47                 | 24.53                 | 24.82                 | 0                                  | 0           |
|                                | 1       | 13        | 24.36                 | 24.69                 | 24.73                 |                                    | 0           |
|                                | 1       | 23        | 24.44                 | 24.69                 | 24.69                 |                                    | 0           |
|                                | 12      | 0         | 23.71                 | 24.06                 | 24.08                 | 0-0.5                              | 0.5         |
|                                | 12      | 7         | 24.21                 | 24.46                 | 24.58                 | 0                                  | 0           |
|                                | 12      | 13        | 23.62                 | 23.93                 | 24.07                 | 0-0.5                              | 0.5         |
|                                | 25      | 0         | 23.66                 | 23.97                 | 24.14                 |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK             | 1       | 1         | 24.22                 | 24.32                 | 24.50                 | 0                                  | 0           |
|                                | 1       | 13        | 24.19                 | 24.18                 | 24.42                 |                                    | 0           |
|                                | 1       | 23        | 24.02                 | 24.39                 | 24.34                 |                                    | 0           |
|                                | 12      | 0         | 23.35                 | 23.65                 | 23.74                 | 0-1                                | 1           |
|                                | 12      | 7         | 24.23                 | 24.51                 | 24.66                 | 0                                  | 0           |
|                                | 12      | 13        | 23.21                 | 23.52                 | 23.65                 | 0-1                                | 1           |
|                                | 25      | 0         | 23.22                 | 23.59                 | 23.72                 |                                    | 1           |
| DFT-s-OFDM<br>16QAM            | 1       | 1         | 23.37                 | 23.41                 | 23.64                 | 0-1                                | 1           |
| CP-OFDM<br>QPSK                | 1       | 1         | 22.75                 | 22.84                 | 22.91                 | 0-1.5                              | 1.5         |

|                                      |                                                                                                                                                        |                               |                                                                                       |                                 |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                     | DUT Type:<br>Portable Handset |                                                                                       | Page 141 of 305                 |

## 9.5.2

## NR Band n5

Table 9-113  
NR Band n5 Measured  $P_{\max}$  for all DSI - 20 MHz Bandwidth

| NR Band n5<br>20 MHz Bandwidth |         |           |                                                       |                                    |             |
|--------------------------------|---------|-----------|-------------------------------------------------------|------------------------------------|-------------|
| Modulation                     | RB Size | RB Offset | Channel                                               | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
|                                |         |           | 167300<br>(836.5 MHz)<br><br>Conducted<br>Power [dBm] |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK     | 1       | 1         | 24.72                                                 | 0                                  | 0           |
|                                | 1       | 53        | 24.95                                                 |                                    | 0           |
|                                | 1       | 104       | 24.64                                                 |                                    | 0           |
|                                | 50      | 0         | 24.10                                                 | 0-0.5                              | 0.5         |
|                                | 50      | 28        | 24.76                                                 | 0                                  | 0           |
|                                | 50      | 56        | 24.15                                                 | 0-0.5                              | 0.5         |
|                                | 100     | 0         | 24.23                                                 |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK             | 1       | 1         | 24.73                                                 | 0                                  | 0           |
|                                | 1       | 53        | <b>25.06</b>                                          |                                    | 0           |
|                                | 1       | 104       | 24.57                                                 |                                    | 0           |
|                                | 50      | 0         | 23.74                                                 | 0-1                                | 1           |
|                                | 50      | 28        | <b>24.67</b>                                          | 0                                  | 0           |
|                                | 50      | 56        | 23.75                                                 | 0-1                                | 1           |
|                                | 100     | 0         | 23.75                                                 |                                    | 1           |
| DFT-s-OFDM<br>16QAM            | 1       | 1         | 23.65                                                 | 0-1                                | 1           |
| CP-OFDM<br>QPSK                | 1       | 1         | 23.04                                                 | 0-1.5                              | 1.5         |

Note: NR Band n5 (Cell) at 20 MHz bandwidth does not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

|                                      |                                                                                                                                                                                                                |                               |                                                                                       |                                 |
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| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                             | DUT Type:<br>Portable Handset |                                                                                       | Page 142 of 305                 |

**Table 9-114**  
**NR Band n5 Measured P<sub>max</sub> for all DSI - 15 MHz Bandwidth**

| NR Band n5<br>15 MHz Bandwidth |         |           |                                                       |                                    |             |
|--------------------------------|---------|-----------|-------------------------------------------------------|------------------------------------|-------------|
| Modulation                     | RB Size | RB Offset | Channel                                               | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
|                                |         |           | 167300<br>(836.5 MHz)<br><br>Conducted<br>Power [dBm] |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK     | 1       | 1         | 24.70                                                 | 0                                  | 0           |
|                                | 1       | 40        | 24.72                                                 |                                    | 0           |
|                                | 1       | 77        | 24.61                                                 |                                    | 0           |
|                                | 36      | 0         | 24.18                                                 | 0-0.5                              | 0.5         |
|                                | 36      | 22        | 24.63                                                 | 0                                  | 0           |
|                                | 36      | 43        | 24.07                                                 | 0-0.5                              | 0.5         |
|                                | 75      | 0         | 24.17                                                 |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK             | 1       | 1         | 24.73                                                 | 0                                  | 0           |
|                                | 1       | 40        | 24.71                                                 |                                    | 0           |
|                                | 1       | 77        | 24.58                                                 |                                    | 0           |
|                                | 36      | 0         | 23.81                                                 | 0-1                                | 1           |
|                                | 36      | 22        | 24.62                                                 | 0                                  | 0           |
|                                | 36      | 43        | 23.66                                                 | 0-1                                | 1           |
|                                | 75      | 0         | 23.74                                                 |                                    | 1           |
| DFT-s-OFDM<br>16QAM            | 1       | 1         | 23.62                                                 | 0-1                                | 1           |
| CP-OFDM<br>QPSK                | 1       | 1         | 23.14                                                 | 0-1.5                              | 1.5         |

Note: NR Band n5 (Cell) at 15 MHz bandwidth does not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 143 of 305                                                                       |                                        |

**Table 9-115**  
**NR Band n5 Measured P<sub>max</sub> for all DSI - 10 MHz Bandwidth**

| NR Band n5<br>10 MHz Bandwidth |         |           |                                                       |                                    |             |
|--------------------------------|---------|-----------|-------------------------------------------------------|------------------------------------|-------------|
| Modulation                     | RB Size | RB Offset | Channel                                               | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
|                                |         |           | 167300<br>(836.5 MHz)<br><br>Conducted<br>Power [dBm] |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK     | 1       | 1         | 24.69                                                 | 0                                  | 0           |
|                                | 1       | 26        | 24.87                                                 |                                    | 0           |
|                                | 1       | 50        | 24.71                                                 |                                    | 0           |
|                                | 25      | 0         | 24.26                                                 | 0-0.5                              | 0.5         |
|                                | 25      | 14        | 24.72                                                 | 0                                  | 0           |
|                                | 25      | 27        | 24.09                                                 | 0-0.5                              | 0.5         |
|                                | 50      | 0         | 24.22                                                 |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK             | 1       | 1         | 24.58                                                 | 0                                  | 0           |
|                                | 1       | 26        | 24.82                                                 |                                    | 0           |
|                                | 1       | 50        | 24.59                                                 |                                    | 0           |
|                                | 25      | 0         | 23.79                                                 | 0-1                                | 1           |
|                                | 25      | 14        | 24.64                                                 | 0                                  | 0           |
|                                | 25      | 27        | 23.66                                                 | 0-1                                | 1           |
|                                | 50      | 0         | 23.78                                                 |                                    | 1           |
| DFT-s-OFDM<br>16QAM            | 1       | 1         | 24.06                                                 | 0-1                                | 1           |
| CP-OFDM<br>QPSK                | 1       | 1         | 22.75                                                 | 0-1.5                              | 1.5         |

Note: NR Band n5 (Cell) at 10 MHz bandwidth does not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
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| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 144 of 305                                                                       |                                        |



**Table 9-116**  
**NR Band n5 Measured  $P_{max}$  for all DSI - 5 MHz Bandwidth**

| NR Band n5<br>5 MHz Bandwidth |         |           |                       |                       |                       |                                    |             |
|-------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------------|-------------|
|                               |         |           | Channel               |                       |                       | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                    | RB Size | RB Offset | 165300<br>(826.5 MHz) | 167300<br>(836.5 MHz) | 169300<br>(846.5 MHz) |                                    |             |
|                               |         |           | Conducted Power [dBm] |                       |                       |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK    | 1       | 1         | 24.66                 | 24.76                 | 24.61                 | 0                                  | 0           |
|                               | 1       | 13        | 24.69                 | 24.57                 | 24.42                 |                                    | 0           |
|                               | 1       | 23        | 24.41                 | 24.69                 | 24.37                 |                                    | 0           |
|                               | 12      | 0         | 24.12                 | 24.19                 | 24.01                 | 0-0.5                              | 0.5         |
|                               | 12      | 7         | 24.56                 | 24.66                 | 24.43                 | 0                                  | 0           |
|                               | 12      | 13        | 23.99                 | 24.09                 | 23.82                 | 0-0.5                              | 0.5         |
|                               | 25      | 0         | 24.08                 | 24.15                 | 23.95                 |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK            | 1       | 1         | 24.51                 | 24.73                 | 24.56                 | 0                                  | 0           |
|                               | 1       | 13        | 24.54                 | 24.63                 | 24.31                 |                                    | 0           |
|                               | 1       | 23        | 24.42                 | 24.54                 | 24.27                 |                                    | 0           |
|                               | 12      | 0         | 23.79                 | 23.79                 | 23.57                 | 0-1                                | 1           |
|                               | 12      | 7         | 24.47                 | 24.62                 | 24.37                 | 0                                  | 0           |
|                               | 12      | 13        | 23.64                 | 23.72                 | 23.37                 | 0-1                                | 1           |
|                               | 25      | 0         | 23.75                 | 23.72                 | 23.51                 |                                    | 1           |
| DFT-s-OFDM<br>16QAM           | 1       | 1         | 24.13                 | 24.16                 | 23.93                 | 0-1                                | 1           |
| CP-OFDM<br>QPSK               | 1       | 1         | 22.94                 | 22.96                 | 22.67                 | 0-1.5                              | 1.5         |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 145 of 305                                                                       |                                        |

### 9.5.3

### NR Band n66

Table 9-117

NR Band n66 Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 20 MHz Bandwidth

| NR Band n66<br>20 MHz Bandwidth |         |           |                       |                      |                      |                                    |             |
|---------------------------------|---------|-----------|-----------------------|----------------------|----------------------|------------------------------------|-------------|
|                                 |         |           | Channel               |                      |                      | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 344000<br>(1720 MHz)  | 349000<br>(1745 MHz) | 354000<br>(1770 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm] |                      |                      |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 23.78                 | 23.64                | 23.74                | 0                                  | 0           |
|                                 | 1       | 53        | 23.84                 | 23.73                | 23.59                |                                    | 0           |
|                                 | 1       | 104       | 23.74                 | 23.55                | 23.64                |                                    | 0           |
|                                 | 50      | 0         | 23.28                 | 23.13                | 23.30                | 0-0.5                              | 0.5         |
|                                 | 50      | 28        | 23.67                 | 23.58                | 23.62                | 0                                  | 0           |
|                                 | 50      | 56        | 23.25                 | 23.17                | 23.23                | 0-0.5                              | 0.5         |
|                                 | 100     | 0         | 23.29                 | 23.12                | 23.26                |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 23.56                 | 23.71                | 23.42                | 0                                  | 0           |
|                                 | 1       | 53        | <b>23.93</b>          | 23.78                | 23.76                |                                    | 0           |
|                                 | 1       | 104       | 23.77                 | 23.48                | 23.40                |                                    | 0           |
|                                 | 50      | 0         | 22.68                 | 22.51                | 22.65                | 0-1                                | 1           |
|                                 | 50      | 28        | <b>23.67</b>          | 23.54                | 23.56                | 0                                  | 0           |
|                                 | 50      | 56        | 22.72                 | 22.46                | 22.57                | 0-1                                | 1           |
|                                 | 100     | 0         | 22.69                 | 22.55                | 22.59                |                                    | 1           |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 22.64                 | 22.83                | 22.52                | 0-1                                | 1           |
| CP-OFDM<br>QPSK                 | 1       | 1         | 22.04                 | 22.12                | 21.78                | 0-1.5                              | 1.5         |

|                                      |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
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| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 146 of 305                 |

**Table 9-118**  
**NR Band n66 Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 15 MHz Bandwidth**

| NR Band n66<br>15 MHz Bandwidth |         |           |                        |                      |                        |                                    |             |
|---------------------------------|---------|-----------|------------------------|----------------------|------------------------|------------------------------------|-------------|
|                                 |         |           | Channel                |                      |                        | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 343500<br>(1717.5 MHz) | 349000<br>(1745 MHz) | 354500<br>(1772.5 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm]  |                      |                        |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 23.93                  | 23.73                | 23.75                  | 0                                  | 0           |
|                                 | 1       | 40        | 23.82                  | 23.61                | 23.65                  |                                    | 0           |
|                                 | 1       | 77        | 23.80                  | 23.61                | 23.75                  |                                    | 0           |
|                                 | 36      | 0         | 23.42                  | 23.19                | 23.27                  | 0-0.5                              | 0.5         |
|                                 | 36      | 22        | 23.77                  | 23.59                | 23.59                  | 0                                  | 0           |
|                                 | 36      | 43        | 23.39                  | 23.11                | 23.15                  | 0-0.5                              | 0.5         |
|                                 | 75      | 0         | 23.41                  | 23.23                | 23.24                  |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 23.75                  | 23.70                | 23.65                  | 0                                  | 0           |
|                                 | 1       | 40        | 23.84                  | 23.54                | 23.57                  |                                    | 0           |
|                                 | 1       | 77        | 23.86                  | 23.58                | 23.57                  |                                    | 0           |
|                                 | 36      | 0         | 22.85                  | 22.57                | 22.64                  | 0-1                                | 1           |
|                                 | 36      | 22        | 23.79                  | 23.57                | 23.68                  | 0                                  | 0           |
|                                 | 36      | 43        | 22.86                  | 22.62                | 22.57                  | 0-1                                | 1           |
|                                 | 75      | 0         | 22.86                  | 22.62                | 22.66                  |                                    | 1           |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 22.90                  | 22.87                | 22.86                  | 0-1                                | 1           |
| CP-OFDM<br>QPSK                 | 1       | 1         | 22.25                  | 22.15                | 22.06                  | 0-1.5                              | 1.5         |

|                                      |                                                                                                                                                                                                                                                  |                               |                                        |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of the</small>  <b>SAMSUNG</b> | <b>SAR EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                               | DUT Type:<br>Portable Handset | Page 147 of 305                        |

**Table 9-119**  
**NR Band n66 Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 10 MHz Bandwidth**

| NR Band n66<br>10 MHz Bandwidth |         |           |                       |                      |                      |                                    |             |
|---------------------------------|---------|-----------|-----------------------|----------------------|----------------------|------------------------------------|-------------|
|                                 |         |           | Channel               |                      |                      | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 343000<br>(1715 MHz)  | 349000<br>(1745 MHz) | 355000<br>(1775 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm] |                      |                      |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 23.94                 | 23.77                | 23.92                | 0                                  | 0           |
|                                 | 1       | 26        | 24.10                 | 23.93                | 24.06                |                                    | 0           |
|                                 | 1       | 50        | 23.97                 | 23.67                | 23.94                |                                    | 0           |
|                                 | 25      | 0         | 23.48                 | 23.36                | 23.49                | 0-0.5                              | 0.5         |
|                                 | 25      | 14        | 23.87                 | 23.77                | 23.95                | 0                                  | 0           |
|                                 | 25      | 27        | 23.48                 | 23.37                | 23.36                | 0-0.5                              | 0.5         |
|                                 | 50      | 0         | 23.47                 | 23.34                | 23.51                |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 23.74                 | 23.81                | 23.69                | 0                                  | 0           |
|                                 | 1       | 26        | 23.85                 | 23.85                | 23.72                |                                    | 0           |
|                                 | 1       | 50        | 23.77                 | 23.74                | 23.35                |                                    | 0           |
|                                 | 25      | 0         | 22.75                 | 22.85                | 22.78                | 0-1                                | 1           |
|                                 | 25      | 14        | 23.82                 | 23.73                | 23.75                | 0                                  | 0           |
|                                 | 25      | 27        | 22.85                 | 22.75                | 22.56                | 0-1                                | 1           |
|                                 | 50      | 0         | 22.78                 | 22.70                | 22.67                |                                    | 1           |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 22.87                 | 22.86                | 22.77                | 0-1                                | 1           |
| CP-OFDM<br>QPSK                 | 1       | 1         | 22.21                 | 22.26                | 22.23                | 0-1.5                              | 1.5         |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 148 of 305                                                                       |                                        |

**Table 9-120**  
**NR Band n66 Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 5 MHz Bandwidth**

| NR Band n66<br>5 MHz Bandwidth |         |           |                        |                      |                        |                                    |             |
|--------------------------------|---------|-----------|------------------------|----------------------|------------------------|------------------------------------|-------------|
|                                |         |           | Channel                |                      |                        | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                     | RB Size | RB Offset | 342500<br>(1712.5 MHz) | 349000<br>(1745 MHz) | 355500<br>(1777.5 MHz) |                                    |             |
|                                |         |           | Conducted Power [dBm]  |                      |                        |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK     | 1       | 1         | 23.82                  | 23.78                | 23.62                  | 0                                  | 0           |
|                                | 1       | 13        | 23.84                  | 23.89                | 23.68                  |                                    | 0           |
|                                | 1       | 23        | 23.75                  | 23.86                | 23.70                  |                                    | 0           |
|                                | 12      | 0         | 23.46                  | 23.41                | 23.33                  | 0-0.5                              | 0.5         |
|                                | 12      | 7         | 23.81                  | 23.80                | 23.72                  | 0                                  | 0           |
|                                | 12      | 13        | 23.47                  | 23.42                | 23.35                  | 0-0.5                              | 0.5         |
|                                | 25      | 0         | 23.44                  | 23.21                | 23.27                  |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK             | 1       | 1         | 23.89                  | 23.74                | 23.81                  | 0                                  | 0           |
|                                | 1       | 13        | 23.86                  | 23.80                | 23.68                  |                                    | 0           |
|                                | 1       | 23        | 23.79                  | 23.71                | 23.52                  |                                    | 0           |
|                                | 12      | 0         | 22.72                  | 22.72                | 22.72                  | 0-1                                | 1           |
|                                | 12      | 7         | 23.77                  | 23.73                | 23.59                  | 0                                  | 0           |
|                                | 12      | 13        | 22.83                  | 22.72                | 22.60                  | 0-1                                | 1           |
|                                | 25      | 0         | 22.70                  | 22.70                | 22.64                  |                                    | 1           |
| DFT-s-OFDM<br>16QAM            | 1       | 1         | 22.81                  | 22.86                | 22.91                  | 0-1                                | 1           |
| CP-OFDM<br>QPSK                | 1       | 1         | 22.15                  | 22.05                | 22.13                  | 0-1.5                              | 1.5         |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 149 of 305                                                                       |                                        |

**Table 9-121**  
**NR Band n66 Measured  $P_{limit}$  for DSI = 3 (Hotspot mode) - 20 MHz Bandwidth**

| NR Band n66<br>20 MHz Bandwidth |         |           |                       |                      |                      |                                    |             |
|---------------------------------|---------|-----------|-----------------------|----------------------|----------------------|------------------------------------|-------------|
|                                 |         |           | Channel               |                      |                      | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 344000<br>(1720 MHz)  | 349000<br>(1745 MHz) | 354000<br>(1770 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm] |                      |                      |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 19.91                 | 19.63                | 19.72                | 0                                  | 0.0         |
|                                 | 1       | 53        | 19.71                 | 19.65                | 19.70                |                                    | 0.0         |
|                                 | 1       | 104       | 19.68                 | 19.55                | 19.53                |                                    | 0.0         |
|                                 | 50      | 0         | 19.74                 | 19.67                | 19.51                | 0-0.5                              | 0.0         |
|                                 | 50      | 28        | 19.66                 | 19.62                | 19.52                | 0                                  | 0.0         |
|                                 | 50      | 56        | 19.66                 | 19.58                | 19.51                | 0-0.5                              | 0.0         |
|                                 | 100     | 0         | 19.67                 | 19.64                | 19.51                |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | <b>19.79</b>          | 19.48                | 19.68                | 0                                  | 0.0         |
|                                 | 1       | 53        | 19.69                 | 19.57                | 19.59                |                                    | 0.0         |
|                                 | 1       | 104       | 19.56                 | 19.45                | 19.45                |                                    | 0.0         |
|                                 | 50      | 0         | <b>19.70</b>          | 19.69                | 19.61                | 0-1                                | 0.0         |
|                                 | 50      | 28        | 19.65                 | 19.60                | 19.60                | 0                                  | 0.0         |
|                                 | 50      | 56        | 19.68                 | 19.69                | 19.55                | 0-1                                | 0.0         |
|                                 | 100     | 0         | 19.64                 | 19.58                | 19.59                |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 19.67                 | 19.61                | 19.42                | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 19.90                 | 19.87                | 19.72                | 0-1.5                              | 0.0         |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 150 of 305                                                                       |                                        |

**Table 9-122**  
**NR Band n66 Measured  $P_{limit}$  for DSI = 3 (Hotspot mode) - 15 MHz Bandwidth**

| NR Band n66<br>15 MHz Bandwidth |         |           |                        |                      |                        |                                    |             |
|---------------------------------|---------|-----------|------------------------|----------------------|------------------------|------------------------------------|-------------|
|                                 |         |           | Channel                |                      |                        | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 343500<br>(1717.5 MHz) | 349000<br>(1745 MHz) | 354500<br>(1772.5 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm]  |                      |                        |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 19.68                  | 19.61                | 19.69                  | 0                                  | 0.0         |
|                                 | 1       | 40        | 19.58                  | 19.42                | 19.57                  |                                    | 0.0         |
|                                 | 1       | 77        | 19.61                  | 19.43                | 19.67                  |                                    | 0.0         |
|                                 | 36      | 0         | 19.64                  | 19.50                | 19.57                  | 0-0.5                              | 0.0         |
|                                 | 36      | 22        | 19.60                  | 19.46                | 19.51                  | 0                                  | 0.0         |
|                                 | 36      | 43        | 19.57                  | 19.41                | 19.50                  | 0-0.5                              | 0.0         |
|                                 | 75      | 0         | 19.65                  | 19.48                | 19.58                  |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 19.63                  | 19.57                | 19.63                  | 0                                  | 0.0         |
|                                 | 1       | 40        | 19.57                  | 19.44                | 19.46                  |                                    | 0.0         |
|                                 | 1       | 77        | 19.62                  | 19.41                | 19.56                  |                                    | 0.0         |
|                                 | 36      | 0         | 19.66                  | 19.51                | 19.57                  | 0-1                                | 0.0         |
|                                 | 36      | 22        | 19.66                  | 19.48                | 19.55                  | 0                                  | 0.0         |
|                                 | 36      | 43        | 19.62                  | 19.41                | 19.49                  | 0-1                                | 0.0         |
|                                 | 75      | 0         | 19.63                  | 19.49                | 19.58                  |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 19.45                  | 19.37                | 19.84                  | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 19.56                  | 19.36                | 19.73                  | 0-1.5                              | 0.0         |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 151 of 305                                                                       |                                        |

**Table 9-123**  
**NR Band n66 Measured  $P_{limit}$  for DSI = 3 (Hotspot mode) - 10 MHz Bandwidth**

| NR Band n66<br>10 MHz Bandwidth |         |           |                       |                      |                      |                                    |             |
|---------------------------------|---------|-----------|-----------------------|----------------------|----------------------|------------------------------------|-------------|
|                                 |         |           | Channel               |                      |                      | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 343000<br>(1715 MHz)  | 349000<br>(1745 MHz) | 355000<br>(1775 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm] |                      |                      |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 19.87                 | 19.58                | 19.68                | 0                                  | 0.0         |
|                                 | 1       | 26        | 20.00                 | 19.84                | 19.77                |                                    | 0.0         |
|                                 | 1       | 50        | 19.77                 | 19.52                | 19.59                |                                    | 0.0         |
|                                 | 25      | 0         | 19.73                 | 19.56                | 19.51                | 0-0.5                              | 0.0         |
|                                 | 25      | 14        | 19.86                 | 19.55                | 19.58                | 0                                  | 0.0         |
|                                 | 25      | 27        | 19.75                 | 19.46                | 19.48                | 0-0.5                              | 0.0         |
|                                 | 50      | 0         | 19.74                 | 19.43                | 19.47                |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 19.70                 | 19.51                | 19.52                | 0                                  | 0.0         |
|                                 | 1       | 26        | 19.76                 | 19.52                | 19.54                |                                    | 0.0         |
|                                 | 1       | 50        | 19.65                 | 19.42                | 19.46                |                                    | 0.0         |
|                                 | 25      | 0         | 19.73                 | 19.49                | 19.55                | 0-1                                | 0.0         |
|                                 | 25      | 14        | 19.75                 | 19.51                | 19.52                | 0                                  | 0.0         |
|                                 | 25      | 27        | 19.74                 | 19.52                | 19.54                | 0-1                                | 0.0         |
|                                 | 50      | 0         | 19.73                 | 19.54                | 19.50                |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 19.97                 | 19.77                | 19.81                | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 19.73                 | 19.55                | 19.66                | 0-1.5                              | 0.0         |

|                                      |                                                                                                                                                                                                                                   |                               |                                                                                       |                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of the</small>  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                | DUT Type:<br>Portable Handset |                                                                                       | Page 152 of 305                 |



**Table 9-124**  
**NR Band n66 Measured  $P_{limit}$  for DSI = 3 (Hotspot mode) - 5 MHz Bandwidth**

| NR Band n66<br>5 MHz Bandwidth |         |           |                        |                      |                        |                                    |             |
|--------------------------------|---------|-----------|------------------------|----------------------|------------------------|------------------------------------|-------------|
|                                |         |           | Channel                |                      |                        | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                     | RB Size | RB Offset | 342500<br>(1712.5 MHz) | 349000<br>(1745 MHz) | 355500<br>(1777.5 MHz) |                                    |             |
|                                |         |           | Conducted Power [dBm]  |                      |                        |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK     | 1       | 1         | 19.85                  | 19.69                | 19.64                  | 0                                  | 0.0         |
|                                | 1       | 13        | 19.85                  | 19.56                | 19.67                  |                                    | 0.0         |
|                                | 1       | 23        | 19.71                  | 19.61                | 19.52                  |                                    | 0.0         |
|                                | 12      | 0         | 19.74                  | 19.47                | 19.51                  | 0-0.5                              | 0.0         |
|                                | 12      | 7         | 19.72                  | 19.50                | 19.49                  | 0                                  | 0.0         |
|                                | 12      | 13        | 19.68                  | 19.48                | 19.46                  | 0-0.5                              | 0.0         |
|                                | 25      | 0         | 19.75                  | 19.50                | 19.44                  |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK             | 1       | 1         | 19.71                  | 19.44                | 19.46                  | 0                                  | 0.0         |
|                                | 1       | 13        | 19.65                  | 19.39                | 19.55                  |                                    | 0.0         |
|                                | 1       | 23        | 19.65                  | 19.42                | 19.36                  |                                    | 0.0         |
|                                | 12      | 0         | 19.75                  | 19.50                | 19.53                  | 0-1                                | 0.0         |
|                                | 12      | 7         | 19.81                  | 19.53                | 19.48                  | 0                                  | 0.0         |
|                                | 12      | 13        | 19.76                  | 19.51                | 19.51                  | 0-1                                | 0.0         |
|                                | 25      | 0         | 19.79                  | 19.49                | 19.53                  |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM            | 1       | 1         | 19.92                  | 19.67                | 19.72                  | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                | 1       | 1         | 19.85                  | 19.56                | 19.54                  | 0-1.5                              | 0.0         |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 153 of 305                                                                       |                                        |

Table 9-125

NR Band n66 Measured  $P_{limit}$  for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 20 MHz Bandwidth

| NR Band n66<br>20 MHz Bandwidth |         |           |                       |                      |                      |                                    |             |
|---------------------------------|---------|-----------|-----------------------|----------------------|----------------------|------------------------------------|-------------|
|                                 |         |           | Channel               |                      |                      | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 344000<br>(1720 MHz)  | 349000<br>(1745 MHz) | 354000<br>(1770 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm] |                      |                      |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 20.02                 | 19.80                | 20.15                | 0                                  | 0.0         |
|                                 | 1       | 53        | 19.96                 | 19.77                | 19.99                |                                    | 0.0         |
|                                 | 1       | 104       | 20.03                 | 19.66                | 19.99                |                                    | 0.0         |
|                                 | 50      | 0         | 19.81                 | 19.63                | 19.94                | 0-0.5                              | 0.0         |
|                                 | 50      | 28        | 19.77                 | 19.54                | 19.89                | 0                                  | 0.0         |
|                                 | 50      | 56        | 19.50                 | 19.52                | 19.91                | 0-0.5                              | 0.0         |
|                                 | 100     | 0         | 19.81                 | 19.54                | 19.91                |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 19.95                 | 19.72                | 20.02                | 0                                  | 0.0         |
|                                 | 1       | 53        | 19.98                 | 19.53                | 20.03                |                                    | 0.0         |
|                                 | 1       | 104       | 19.77                 | 19.54                | 19.91                |                                    | 0.0         |
|                                 | 50      | 0         | 19.85                 | 19.64                | 19.96                | 0-1                                | 0.0         |
|                                 | 50      | 28        | 19.84                 | 19.61                | 19.92                | 0                                  | 0.0         |
|                                 | 50      | 56        | 19.74                 | 19.45                | 19.88                | 0-1                                | 0.0         |
|                                 | 100     | 0         | 19.80                 | 19.60                | 19.87                |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 19.59                 | 19.52                | 19.89                | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 19.63                 | 19.42                | 19.80                | 0-1.5                              | 0.0         |

|                                      |                                                                                                                                                                                                                             |                               |                                                                                       |                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br>Proud to be part of  <b>SAMSUNG</b> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                          | DUT Type:<br>Portable Handset |                                                                                       | Page 154 of 305                 |

Table 9-126

NR Band n66 Measured  $P_{limit}$  for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) -  
15 MHz Bandwidth

| NR Band n66<br>15 MHz Bandwidth |         |           |                        |                      |                        |                                    |             |
|---------------------------------|---------|-----------|------------------------|----------------------|------------------------|------------------------------------|-------------|
|                                 |         |           | Channel                |                      |                        | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 343500<br>(1717.5 MHz) | 349000<br>(1745 MHz) | 354500<br>(1772.5 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm]  |                      |                        |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 20.18                  | 19.94                | 20.13                  | 0                                  | 0.0         |
|                                 | 1       | 40        | 20.14                  | 19.87                | 20.02                  |                                    | 0.0         |
|                                 | 1       | 77        | 20.05                  | 19.91                | 20.11                  |                                    | 0.0         |
|                                 | 36      | 0         | 20.08                  | 19.88                | 20.03                  | 0-0.5                              | 0.0         |
|                                 | 36      | 22        | 20.05                  | 19.81                | 19.98                  | 0                                  | 0.0         |
|                                 | 36      | 43        | 20.08                  | 19.84                | 19.93                  | 0-0.5                              | 0.0         |
|                                 | 75      | 0         | 20.09                  | 19.88                | 19.99                  |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 20.12                  | 20.03                | 20.06                  | 0                                  | 0.0         |
|                                 | 1       | 40        | 20.01                  | 19.85                | 19.95                  |                                    | 0.0         |
|                                 | 1       | 77        | 20.13                  | 19.89                | 19.87                  |                                    | 0.0         |
|                                 | 36      | 0         | 20.17                  | 19.89                | 20.00                  | 0-1                                | 0.0         |
|                                 | 36      | 22        | 20.08                  | 19.83                | 19.88                  | 0                                  | 0.0         |
|                                 | 36      | 43        | 20.11                  | 19.84                | 19.94                  | 0-1                                | 0.0         |
|                                 | 75      | 0         | 20.10                  | 19.86                | 19.95                  |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 19.97                  | 19.95                | 20.29                  | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 19.93                  | 19.85                | 20.11                  | 0-1.5                              | 0.0         |

|                                      |                                                                                                                                                                                                                        |                               |                                                                                       |                                 |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br>Proud to be part of  ecosystem | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                     | DUT Type:<br>Portable Handset |                                                                                       | Page 155 of 305                 |

Table 9-127

NR Band n66 Measured  $P_{limit}$  for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) -  
10 MHz Bandwidth

| NR Band n66<br>10 MHz Bandwidth |         |           |                       |                      |                      |                                    |             |
|---------------------------------|---------|-----------|-----------------------|----------------------|----------------------|------------------------------------|-------------|
|                                 |         |           | Channel               |                      |                      | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 343000<br>(1715 MHz)  | 349000<br>(1745 MHz) | 355000<br>(1775 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm] |                      |                      |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 20.30                 | 20.18                | 20.13                | 0                                  | 0.0         |
|                                 | 1       | 26        | 20.24                 | 20.05                | 20.15                |                                    | 0.0         |
|                                 | 1       | 50        | 20.16                 | 20.04                | 20.08                |                                    | 0.0         |
|                                 | 25      | 0         | 20.17                 | 20.00                | 20.05                | 0-0.5                              | 0.0         |
|                                 | 25      | 14        | 20.23                 | 20.11                | 20.14                | 0                                  | 0.0         |
|                                 | 25      | 27        | 20.12                 | 19.98                | 20.01                | 0-0.5                              | 0.0         |
|                                 | 50      | 0         | 20.15                 | 19.96                | 20.03                |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 20.08                 | 20.03                | 19.97                | 0                                  | 0.0         |
|                                 | 1       | 26        | 20.11                 | 20.05                | 20.03                |                                    | 0.0         |
|                                 | 1       | 50        | 20.08                 | 19.87                | 20.06                |                                    | 0.0         |
|                                 | 25      | 0         | 20.14                 | 19.98                | 20.04                | 0-1                                | 0.0         |
|                                 | 25      | 14        | 20.15                 | 20.02                | 20.07                | 0                                  | 0.0         |
|                                 | 25      | 27        | 20.11                 | 19.96                | 19.98                | 0-1                                | 0.0         |
|                                 | 50      | 0         | 20.14                 | 20.01                | 20.05                |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 19.99                 | 19.96                | 19.98                | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 19.97                 | 19.72                | 19.75                | 0-1.5                              | 0.0         |

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset | Page 156 of 305                                                                       |                                        |

Table 9-128

NR Band n66 Measured  $P_{limit}$  for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 5 MHz Bandwidth

| NR Band n66<br>5 MHz Bandwidth |         |           |                        |                      |                        |                                    |             |
|--------------------------------|---------|-----------|------------------------|----------------------|------------------------|------------------------------------|-------------|
|                                |         |           | Channel                |                      |                        | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                     | RB Size | RB Offset | 342500<br>(1712.5 MHz) | 349000<br>(1745 MHz) | 355500<br>(1777.5 MHz) |                                    |             |
|                                |         |           | Conducted Power [dBm]  |                      |                        |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK     | 1       | 1         | 20.27                  | 20.01                | 19.95                  | 0                                  | 0.0         |
|                                | 1       | 13        | 20.19                  | 19.95                | 20.05                  |                                    | 0.0         |
|                                | 1       | 23        | 20.21                  | 19.93                | 20.13                  |                                    | 0.0         |
|                                | 12      | 0         | 20.13                  | 19.91                | 19.97                  | 0-0.5                              | 0.0         |
|                                | 12      | 7         | 20.11                  | 19.94                | 19.98                  | 0                                  | 0.0         |
|                                | 12      | 13        | 20.08                  | 19.93                | 19.94                  | 0-0.5                              | 0.0         |
|                                | 25      | 0         | 20.10                  | 20.01                | 19.97                  |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK             | 1       | 1         | 20.16                  | 19.85                | 19.91                  | 0                                  | 0.0         |
|                                | 1       | 13        | 20.11                  | 20.04                | 19.95                  |                                    | 0.0         |
|                                | 1       | 23        | 20.02                  | 19.89                | 19.87                  |                                    | 0.0         |
|                                | 12      | 0         | 20.16                  | 20.00                | 20.01                  | 0-1                                | 0.0         |
|                                | 12      | 7         | 20.15                  | 20.03                | 19.95                  | 0                                  | 0.0         |
|                                | 12      | 13        | 20.08                  | 19.96                | 19.99                  | 0-1                                | 0.0         |
|                                | 25      | 0         | 20.17                  | 20.01                | 20.01                  |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM            | 1       | 1         | 20.01                  | 19.95                | 19.94                  | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                | 1       | 1         | 19.85                  | 19.77                | 19.72                  | 0-1.5                              | 0.0         |

|                                      |                                                                                                                                                                                                                        |                               |                                                                                       |                                 |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br>Proud to be part of  ecosystem | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                     | DUT Type:<br>Portable Handset |                                                                                       | Page 157 of 305                 |

## 9.5.4

## NR Band n25

Table 9-129

NR Band n25 Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 20 MHz Bandwidth

| NR Band n25<br>20 MHz Bandwidth |         |           |                       |                        |                      |                                    |             |
|---------------------------------|---------|-----------|-----------------------|------------------------|----------------------|------------------------------------|-------------|
|                                 |         |           | Channel               |                        |                      | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 372000<br>(1860 MHz)  | 376500<br>(1882.5 MHz) | 381000<br>(1905 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm] |                        |                      |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 23.95                 | 23.72                  | 23.81                | 0                                  | 0           |
|                                 | 1       | 53        | 23.84                 | 23.85                  | 24.00                |                                    | 0           |
|                                 | 1       | 104       | 23.70                 | 23.82                  | 23.87                |                                    | 0           |
|                                 | 50      | 0         | 23.36                 | 23.27                  | 23.47                | 0-0.5                              | 0.5         |
|                                 | 50      | 28        | 23.78                 | 23.64                  | 23.94                | 0                                  | 0           |
|                                 | 50      | 56        | 23.28                 | 23.25                  | 23.49                | 0-0.5                              | 0.5         |
|                                 | 100     | 0         | 23.32                 | 23.16                  | 23.50                |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 23.71                 | 23.47                  | 23.84                | 0                                  | 0           |
|                                 | 1       | 53        | 23.87                 | 23.30                  | <b>23.91</b>         |                                    | 0           |
|                                 | 1       | 104       | 23.69                 | 23.46                  | 23.28                |                                    | 0           |
|                                 | 50      | 0         | 22.77                 | 22.42                  | 22.85                | 0-1                                | 1           |
|                                 | 50      | 28        | 23.74                 | 23.25                  | <b>23.91</b>         | 0                                  | 0           |
|                                 | 50      | 56        | 22.66                 | 22.13                  | 22.71                | 0-1                                | 1           |
|                                 | 100     | 0         | 22.68                 | 22.35                  | 22.92                |                                    | 1           |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 22.64                 | 22.29                  | 22.52                | 0-1                                | 1           |
| CP-OFDM<br>QPSK                 | 1       | 1         | 22.28                 | 21.95                  | 22.31                | 0-1.5                              | 1.5         |

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 158 of 305                        |

**Table 9-130**  
**NR Band n25 Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 15 MHz Bandwidth**

| NR Band n25                |         |           |                        |                        |                        |                                    |             |
|----------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------------|-------------|
| 15 MHz Bandwidth           |         |           |                        |                        |                        |                                    |             |
|                            |         |           | Channel                |                        |                        | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                 | RB Size | RB Offset | 371500<br>(1857.5 MHz) | 376500<br>(1882.5 MHz) | 381500<br>(1907.5 MHz) |                                    |             |
|                            |         |           | Conducted Power [dBm]  |                        |                        |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK | 1       | 1         | 23.76                  | 23.65                  | 23.83                  | 0                                  | 0           |
|                            | 1       | 40        | 23.72                  | 23.62                  | 23.97                  |                                    | 0           |
|                            | 1       | 77        | 23.78                  | 23.76                  | 23.78                  |                                    | 0           |
|                            | 36      | 0         | 23.33                  | 23.17                  | 23.62                  | 0-0.5                              | 0.5         |
|                            | 36      | 22        | 23.68                  | 23.56                  | 23.88                  | 0                                  | 0           |
|                            | 36      | 43        | 23.21                  | 22.79                  | 23.31                  | 0-0.5                              | 0.5         |
|                            | 75      | 0         | 23.26                  | 23.16                  | 23.62                  |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK         | 1       | 1         | 23.78                  | 23.43                  | 23.97                  | 0                                  | 0           |
|                            | 1       | 40        | 23.79                  | 23.07                  | 23.42                  |                                    | 0           |
|                            | 1       | 77        | 23.71                  | 23.36                  | 23.38                  |                                    | 0           |
|                            | 36      | 0         | 22.76                  | 22.41                  | 23.07                  | 0-1                                | 1           |
|                            | 36      | 22        | 23.75                  | 23.08                  | 23.58                  | 0                                  | 0           |
|                            | 36      | 43        | 22.65                  | 22.11                  | 22.64                  | 0-1                                | 1           |
|                            | 75      | 0         | 22.70                  | 22.22                  | 22.96                  |                                    | 1           |
| DFT-s-OFDM<br>16QAM        | 1       | 1         | 22.96                  | 22.57                  | 23.08                  | 0-1                                | 1           |
| CP-OFDM<br>QPSK            | 1       | 1         | 22.38                  | 21.81                  | 22.40                  | 0-1.5                              | 1.5         |

|                                             |                                                                                                                                                                                                                             |                                      |                                                                                       |                                        |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                   | <b>DUT Type:</b><br>Portable Handset | Page 159 of 305                                                                       |                                        |

**Table 9-131**  
**NR Band n25 Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 10 MHz Bandwidth**

| NR Band n25<br>10 MHz Bandwidth |         |           |                       |                        |                      |                                    |             |
|---------------------------------|---------|-----------|-----------------------|------------------------|----------------------|------------------------------------|-------------|
|                                 |         |           | Channel               |                        |                      | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 371000<br>(1855 MHz)  | 376500<br>(1882.5 MHz) | 382000<br>(1910 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm] |                        |                      |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 23.77                 | 23.45                  | 23.92                | 0                                  | 0           |
|                                 | 1       | 26        | 24.11                 | 23.85                  | 24.06                |                                    | 0           |
|                                 | 1       | 50        | 23.73                 | 23.46                  | 23.87                |                                    | 0           |
|                                 | 25      | 0         | 23.21                 | 23.10                  | 23.52                | 0-0.5                              | 0.5         |
|                                 | 25      | 14        | 23.63                 | 23.57                  | 23.96                | 0                                  | 0           |
|                                 | 25      | 27        | 23.23                 | 23.05                  | 23.61                | 0-0.5                              | 0.5         |
|                                 | 50      | 0         | 23.27                 | 23.10                  | 23.54                |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 23.73                 | 23.35                  | 23.82                | 0                                  | 0           |
|                                 | 1       | 26        | 24.13                 | 23.37                  | 23.64                |                                    | 0           |
|                                 | 1       | 50        | 23.68                 | 23.31                  | 23.26                |                                    | 0           |
|                                 | 25      | 0         | 23.20                 | 22.37                  | 22.74                | 0-1                                | 1           |
|                                 | 25      | 14        | 23.70                 | 23.10                  | 23.47                | 0                                  | 0           |
|                                 | 25      | 27        | 23.25                 | 22.14                  | 22.67                | 0-1                                | 1           |
|                                 | 50      | 0         | 22.65                 | 22.23                  | 22.67                |                                    | 1           |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 22.94                 | 22.48                  | 22.82                | 0-1                                | 1           |
| CP-OFDM<br>QPSK                 | 1       | 1         | 22.05                 | 21.63                  | 21.86                | 0-1.5                              | 1.5         |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 160 of 305                                                                       |                                        |



**Table 9-132**  
**NR Band n25 Measured  $P_{max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 5 MHz Bandwidth**

| NR Band n25<br>5 MHz Bandwidth |         |           |                        |                        |                        |                                    |             |
|--------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------------|-------------|
|                                |         |           | Channel                |                        |                        | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                     | RB Size | RB Offset | 370500<br>(1852.5 MHz) | 376500<br>(1882.5 MHz) | 382500<br>(1912.5 MHz) |                                    |             |
|                                |         |           | Conducted Power [dBm]  |                        |                        |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK     | 1       | 1         | 23.62                  | 23.48                  | 23.54                  | 0                                  | 0           |
|                                | 1       | 13        | 23.76                  | 23.51                  | 23.68                  |                                    | 0           |
|                                | 1       | 23        | 23.75                  | 23.52                  | 23.68                  |                                    | 0           |
|                                | 12      | 0         | 23.21                  | 23.06                  | 23.26                  | 0-0.5                              | 0.5         |
|                                | 12      | 7         | 23.68                  | 23.46                  | 23.58                  | 0                                  | 0           |
|                                | 12      | 13        | 23.25                  | 23.09                  | 23.25                  | 0-0.5                              | 0.5         |
|                                | 25      | 0         | 23.24                  | 23.04                  | 23.21                  |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK             | 1       | 1         | 23.62                  | 23.35                  | 23.27                  | 0                                  | 0           |
|                                | 1       | 13        | 23.69                  | 22.94                  | 23.30                  |                                    | 0           |
|                                | 1       | 23        | 23.68                  | 23.07                  | 23.11                  |                                    | 0           |
|                                | 12      | 0         | 22.61                  | 22.04                  | 22.35                  | 0-1                                | 1           |
|                                | 12      | 7         | 23.68                  | 22.78                  | 23.50                  | 0                                  | 0           |
|                                | 12      | 13        | 22.71                  | 22.09                  | 22.76                  | 0-1                                | 1           |
|                                | 25      | 0         | 22.65                  | 21.78                  | 22.60                  |                                    | 1           |
| DFT-s-OFDM<br>16QAM            | 1       | 1         | 22.49                  | 21.96                  | 22.45                  | 0-1                                | 1           |
| CP-OFDM<br>QPSK                | 1       | 1         | 22.19                  | 21.56                  | 21.84                  | 0-1.5                              | 1.5         |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 161 of 305                                                                       |                                        |

**Table 9-133**  
**NR Band n25 Measured  $P_{limit}$  for DSI = 3 (Hotspot mode) - 20 MHz Bandwidth**

| NR Band n25<br>20 MHz Bandwidth |         |           |                       |                        |                      |                                    |             |
|---------------------------------|---------|-----------|-----------------------|------------------------|----------------------|------------------------------------|-------------|
|                                 |         |           | Channel               |                        |                      | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 372000<br>(1860 MHz)  | 376500<br>(1882.5 MHz) | 381000<br>(1905 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm] |                        |                      |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 18.71                 | 18.67                  | 18.85                | 0                                  | 0.0         |
|                                 | 1       | 53        | 18.74                 | 18.47                  | 18.99                |                                    | 0.0         |
|                                 | 1       | 104       | 18.61                 | 18.40                  | 18.83                |                                    | 0.0         |
|                                 | 50      | 0         | 18.60                 | 18.47                  | 18.82                | 0-0.5                              | 0.0         |
|                                 | 50      | 28        | 18.56                 | 18.42                  | 18.83                | 0                                  | 0.0         |
|                                 | 50      | 56        | 18.53                 | 18.41                  | 18.78                | 0-0.5                              | 0.0         |
|                                 | 100     | 0         | 18.60                 | 18.41                  | 18.85                |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 18.68                 | 18.48                  | 18.84                | 0                                  | 0.0         |
|                                 | 1       | 53        | 18.66                 | 18.52                  | 18.94                |                                    | 0.0         |
|                                 | 1       | 104       | 18.59                 | 18.43                  | 18.85                |                                    | 0.0         |
|                                 | 50      | 0         | 18.65                 | 18.40                  | 18.78                | 0-1                                | 0.0         |
|                                 | 50      | 28        | 18.57                 | 18.41                  | 18.83                | 0                                  | 0.0         |
|                                 | 50      | 56        | 18.49                 | 18.37                  | 18.71                | 0-1                                | 0.0         |
|                                 | 100     | 0         | 18.56                 | 18.39                  | 18.85                |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 18.96                 | 18.71                  | 18.92                | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 18.57                 | 18.45                  | 18.75                | 0-1.5                              | 0.0         |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 162 of 305                                                                       |                                        |

**Table 9-134**  
**NR Band n2 Measured  $P_{limit}$  for DSI = 3 (Hotspot mode) - 15 MHz Bandwidth**

| NR Band n25<br>15 MHz Bandwidth |         |           |                        |                        |                        |                                    |             |
|---------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------------|-------------|
|                                 |         |           | Channel                |                        |                        | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 371500<br>(1857.5 MHz) | 376500<br>(1882.5 MHz) | 381500<br>(1907.5 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm]  |                        |                        |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 18.73                  | 18.57                  | 18.73                  | 0                                  | 0.0         |
|                                 | 1       | 40        | 18.78                  | 18.54                  | 18.85                  |                                    | 0.0         |
|                                 | 1       | 77        | 18.65                  | 18.67                  | 18.75                  |                                    | 0.0         |
|                                 | 36      | 0         | 18.59                  | 18.43                  | 18.82                  | 0-0.5                              | 0.0         |
|                                 | 36      | 22        | 18.56                  | 18.36                  | 18.86                  | 0                                  | 0.0         |
|                                 | 36      | 43        | 18.50                  | 18.35                  | 18.79                  | 0-0.5                              | 0.0         |
|                                 | 75      | 0         | 18.61                  | 18.38                  | 18.52                  |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 18.49                  | 18.12                  | 18.23                  | 0                                  | 0.0         |
|                                 | 1       | 40        | 18.71                  | 18.61                  | 18.90                  |                                    | 0.0         |
|                                 | 1       | 77        | 18.65                  | 18.64                  | 18.88                  |                                    | 0.0         |
|                                 | 36      | 0         | 18.66                  | 18.66                  | 18.85                  | 0-1                                | 0.0         |
|                                 | 36      | 22        | 18.65                  | 18.41                  | 18.84                  | 0                                  | 0.0         |
|                                 | 36      | 43        | 18.56                  | 18.35                  | 18.77                  | 0-1                                | 0.0         |
|                                 | 75      | 0         | 18.61                  | 18.42                  | 18.80                  |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 18.37                  | 18.55                  | 18.56                  | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 18.52                  | 18.38                  | 18.61                  | 0-1.5                              | 0.0         |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 163 of 305                                                                       |                                        |

**Table 9-135**  
**NR Band n25 Measured  $P_{limit}$  for DSI = 3 (Hotspot mode) - 10 MHz Bandwidth**  
**NR Band n25**  
**10 MHz Bandwidth**

|                            |         |           | Channel               |                        |                      | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
|----------------------------|---------|-----------|-----------------------|------------------------|----------------------|------------------------------------|-------------|
| Modulation                 | RB Size | RB Offset | 371000<br>(1855 MHz)  | 376500<br>(1882.5 MHz) | 382000<br>(1910 MHz) |                                    |             |
|                            |         |           | Conducted Power [dBm] |                        |                      |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK | 1       | 1         | 18.71                 | 18.52                  | 18.86                | 0                                  | 0.0         |
|                            | 1       | 26        | 18.73                 | 18.87                  | 19.00                |                                    | 0.0         |
|                            | 1       | 50        | 18.61                 | 18.56                  | 18.89                |                                    | 0.0         |
|                            | 25      | 0         | 18.56                 | 18.51                  | 18.83                | 0-0.5                              | 0.0         |
|                            | 25      | 14        | 18.62                 | 18.47                  | 18.85                | 0                                  | 0.0         |
|                            | 25      | 27        | 18.65                 | 18.53                  | 18.87                | 0-0.5                              | 0.0         |
|                            | 50      | 0         | 18.59                 | 18.54                  | 18.83                |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK         | 1       | 1         | 18.64                 | 18.65                  | 18.94                | 0                                  | 0.0         |
|                            | 1       | 26        | 18.85                 | 18.66                  | 18.88                |                                    | 0.0         |
|                            | 1       | 50        | 18.34                 | 18.56                  | 18.93                |                                    | 0.0         |
|                            | 25      | 0         | 18.63                 | 18.53                  | 18.80                | 0-1                                | 0.0         |
|                            | 25      | 14        | 18.55                 | 18.52                  | 18.85                | 0                                  | 0.0         |
|                            | 25      | 27        | 18.54                 | 18.51                  | 18.82                | 0-1                                | 0.0         |
|                            | 50      | 0         | 18.68                 | 18.49                  | 18.86                |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM        | 1       | 1         | 18.57                 | 18.85                  | 19.00                | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK            | 1       | 1         | 18.48                 | 18.47                  | 18.72                | 0-1.5                              | 0.0         |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 164 of 305                                                                       |                                        |

**Table 9-136**  
**NR Band n25 Measured  $P_{limit}$  for DSI = 3 (Hotspot mode)- 5 MHz Bandwidth**  
**NR Band n25**  
**5 MHz Bandwidth**

|                            |         |           | Channel                |                        |                        | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
|----------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------------|-------------|
| Modulation                 | RB Size | RB Offset | 370500<br>(1852.5 MHz) | 376500<br>(1882.5 MHz) | 382500<br>(1912.5 MHz) |                                    |             |
|                            |         |           | Conducted Power [dBm]  |                        |                        |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK | 1       | 1         | 18.75                  | 18.74                  | 18.85                  | 0                                  | 0.0         |
|                            | 1       | 13        | 18.68                  | 18.72                  | 18.87                  |                                    | 0.0         |
|                            | 1       | 23        | 18.78                  | 18.77                  | 18.83                  |                                    | 0.0         |
|                            | 12      | 0         | 18.74                  | 18.63                  | 18.88                  | 0-0.5                              | 0.0         |
|                            | 12      | 7         | 18.74                  | 18.67                  | 18.94                  | 0                                  | 0.0         |
|                            | 12      | 13        | 18.79                  | 18.72                  | 18.86                  | 0-0.5                              | 0.0         |
|                            | 25      | 0         | 18.67                  | 18.68                  | 18.88                  |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK         | 1       | 1         | 17.94                  | 18.10                  | 18.78                  | 0                                  | 0.0         |
|                            | 1       | 13        | 18.23                  | 18.47                  | 18.82                  |                                    | 0.0         |
|                            | 1       | 23        | 18.15                  | 18.45                  | 18.75                  |                                    | 0.0         |
|                            | 12      | 0         | 18.67                  | 18.72                  | 18.92                  | 0-1                                | 0.0         |
|                            | 12      | 7         | 18.78                  | 18.68                  | 18.93                  | 0                                  | 0.0         |
|                            | 12      | 13        | 18.71                  | 18.71                  | 18.92                  | 0-1                                | 0.0         |
|                            | 25      | 0         | 18.76                  | 18.72                  | 18.90                  |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM        | 1       | 1         | 18.85                  | 18.65                  | 18.97                  | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK            | 1       | 1         | 18.63                  | 18.58                  | 18.72                  | 0-1.5                              | 0.0         |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 165 of 305                                                                       |                                        |

Table 9-137

NR Band n25 Measured  $P_{limit}$  for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 20 MHz Bandwidth

| NR Band n25<br>20 MHz Bandwidth |         |           |                       |                        |                      |                                    |             |
|---------------------------------|---------|-----------|-----------------------|------------------------|----------------------|------------------------------------|-------------|
|                                 |         |           | Channel               |                        |                      | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 372000<br>(1860 MHz)  | 376500<br>(1882.5 MHz) | 381000<br>(1905 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm] |                        |                      |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 20.09                 | 19.94                  | 20.09                | 0                                  | 0.0         |
|                                 | 1       | 53        | 20.01                 | 19.84                  | 20.36                |                                    | 0.0         |
|                                 | 1       | 104       | 19.82                 | 19.86                  | 20.25                |                                    | 0.0         |
|                                 | 50      | 0         | 19.90                 | 19.78                  | 20.12                | 0-0.5                              | 0.0         |
|                                 | 50      | 28        | 19.86                 | 19.76                  | 20.16                | 0                                  | 0.0         |
|                                 | 50      | 56        | 19.80                 | 19.77                  | 20.15                | 0-0.5                              | 0.0         |
|                                 | 100     | 0         | 19.93                 | 19.74                  | 20.21                |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 19.97                 | 19.75                  | 20.07                | 0                                  | 0.0         |
|                                 | 1       | 53        | 20.04                 | 19.82                  | <b>20.31</b>         |                                    | 0.0         |
|                                 | 1       | 104       | 19.82                 | 19.86                  | 20.21                |                                    | 0.0         |
|                                 | 50      | 0         | 19.97                 | 19.79                  | 20.07                | 0-1                                | 0.0         |
|                                 | 50      | 28        | 19.94                 | 19.75                  | <b>20.17</b>         | 0                                  | 0.0         |
|                                 | 50      | 56        | 19.83                 | 19.81                  | 20.08                | 0-1                                | 0.0         |
|                                 | 100     | 0         | 19.89                 | 19.77                  | 20.13                |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 20.14                 | 20.05                  | 20.44                | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 19.92                 | 19.67                  | 20.10                | 0-1.5                              | 0.0         |

|                                      |                                                                                                                                                                                                                        |                               |                                                                                       |                                 |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br>Proud to be part of  ecosystem | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                     | DUT Type:<br>Portable Handset |                                                                                       | Page 166 of 305                 |

**Table 9-138**  
**NR Band n2 Measured  $P_{limit}$  for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) -**  
**15 MHz Bandwidth**

| NR Band n25<br>15 MHz Bandwidth |         |           |                        |                        |                        |                                    |             |
|---------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------------|-------------|
|                                 |         |           | Channel                |                        |                        | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 371500<br>(1857.5 MHz) | 376500<br>(1882.5 MHz) | 381500<br>(1907.5 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm]  |                        |                        |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 20.04                  | 19.92                  | 20.15                  | 0                                  | 0.0         |
|                                 | 1       | 40        | 20.06                  | 19.89                  | 20.31                  |                                    | 0.0         |
|                                 | 1       | 77        | 19.98                  | 19.88                  | 20.31                  |                                    | 0.0         |
|                                 | 36      | 0         | 19.92                  | 19.80                  | 20.26                  | 0-0.5                              | 0.0         |
|                                 | 36      | 22        | 19.91                  | 19.94                  | 20.22                  | 0                                  | 0.0         |
|                                 | 36      | 43        | 19.84                  | 19.58                  | 20.21                  | 0-0.5                              | 0.0         |
|                                 | 75      | 0         | 19.90                  | 19.83                  | 20.28                  |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 20.01                  | 19.92                  | 20.23                  | 0                                  | 0.0         |
|                                 | 1       | 40        | 19.92                  | 19.86                  | 20.31                  |                                    | 0.0         |
|                                 | 1       | 77        | 19.97                  | 19.97                  | 20.25                  |                                    | 0.0         |
|                                 | 36      | 0         | 19.90                  | 19.87                  | 20.31                  | 0-1                                | 0.0         |
|                                 | 36      | 22        | 19.87                  | 19.85                  | 20.26                  | 0                                  | 0.0         |
|                                 | 36      | 43        | 19.88                  | 19.80                  | 20.21                  | 0-1                                | 0.0         |
|                                 | 75      | 0         | 19.94                  | 19.79                  | 20.25                  |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 20.05                  | 19.87                  | 20.04                  | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 19.77                  | 19.57                  | 20.06                  | 0-1.5                              | 0.0         |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 167 of 305                                                                       |                                        |

Table 9-139

NR Band n25 Measured  $P_{limit}$  for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 10 MHz Bandwidth

| NR Band n25<br>10 MHz Bandwidth |         |           |                       |                        |                      |                                    |             |
|---------------------------------|---------|-----------|-----------------------|------------------------|----------------------|------------------------------------|-------------|
|                                 |         |           | Channel               |                        |                      | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 371000<br>(1855 MHz)  | 376500<br>(1882.5 MHz) | 382000<br>(1910 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm] |                        |                      |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 20.03                 | 19.86                  | 20.06                | 0                                  | 0.0         |
|                                 | 1       | 26        | 20.35                 | 20.23                  | 20.50                |                                    | 0.0         |
|                                 | 1       | 50        | 19.95                 | 19.85                  | 20.23                |                                    | 0.0         |
|                                 | 25      | 0         | 19.91                 | 19.73                  | 20.15                | 0-0.5                              | 0.0         |
|                                 | 25      | 14        | 19.93                 | 19.76                  | 20.17                | 0                                  | 0.0         |
|                                 | 25      | 27        | 19.92                 | 19.73                  | 20.23                | 0-0.5                              | 0.0         |
|                                 | 50      | 0         | 19.93                 | 19.76                  | 20.20                |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 19.94                 | 19.83                  | 20.09                | 0                                  | 0.0         |
|                                 | 1       | 26        | 20.06                 | 19.91                  | 20.42                |                                    | 0.0         |
|                                 | 1       | 50        | 19.85                 | 19.89                  | 20.26                |                                    | 0.0         |
|                                 | 25      | 0         | 19.93                 | 19.75                  | 20.17                | 0-1                                | 0.0         |
|                                 | 25      | 14        | 19.93                 | 19.76                  | 20.23                | 0                                  | 0.0         |
|                                 | 25      | 27        | 19.90                 | 19.77                  | 20.21                | 0-1                                | 0.0         |
|                                 | 50      | 0         | 19.92                 | 19.72                  | 20.20                |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 20.19                 | 20.07                  | 20.47                | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 20.06                 | 19.75                  | 20.04                | 0-1.5                              | 0.0         |

|                                      |                                                                                                                                                                                                                        |                               |                                                                                       |                                 |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br>Proud to be part of  ecosystem | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                     | DUT Type:<br>Portable Handset |                                                                                       | Page 168 of 305                 |



Table 9-140

NR Band n25 Measured  $P_{limit}$  for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 5 MHz Bandwidth

| NR Band n25<br>5 MHz Bandwidth |         |           |                        |                        |                        |                                    |             |
|--------------------------------|---------|-----------|------------------------|------------------------|------------------------|------------------------------------|-------------|
|                                |         |           | Channel                |                        |                        | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                     | RB Size | RB Offset | 370500<br>(1852.5 MHz) | 376500<br>(1882.5 MHz) | 382500<br>(1912.5 MHz) |                                    |             |
|                                |         |           | Conducted Power [dBm]  |                        |                        |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK     | 1       | 1         | 20.05                  | 19.97                  | 20.29                  | 0                                  | 0.0         |
|                                | 1       | 13        | 20.05                  | 20.06                  | 20.17                  |                                    | 0.0         |
|                                | 1       | 23        | 20.10                  | 20.14                  | 20.32                  |                                    | 0.0         |
|                                | 12      | 0         | 20.07                  | 19.92                  | 20.27                  | 0-0.5                              | 0.0         |
|                                | 12      | 7         | 20.12                  | 19.99                  | 20.22                  | 0                                  | 0.0         |
|                                | 12      | 13        | 20.17                  | 19.95                  | 20.34                  | 0-0.5                              | 0.0         |
|                                | 25      | 0         | 20.03                  | 19.99                  | 20.28                  |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK             | 1       | 1         | 19.97                  | 19.88                  | 20.15                  | 0                                  | 0.0         |
|                                | 1       | 13        | 20.13                  | 20.02                  | 20.13                  |                                    | 0.0         |
|                                | 1       | 23        | 20.07                  | 20.04                  | 20.21                  |                                    | 0.0         |
|                                | 12      | 0         | 20.11                  | 19.95                  | 20.20                  | 0-1                                | 0.0         |
|                                | 12      | 7         | 20.08                  | 19.97                  | 20.25                  | 0                                  | 0.0         |
|                                | 12      | 13        | 20.11                  | 19.96                  | 20.32                  | 0-1                                | 0.0         |
|                                | 25      | 0         | 20.08                  | 19.98                  | 20.39                  |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM            | 1       | 1         | 20.12                  | 19.89                  | 20.43                  | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                | 1       | 1         | 19.98                  | 19.84                  | 20.09                  | 0-1.5                              | 0.0         |

|                                      |                                                                                                                                                                                                                        |                               |                                                                                       |                                 |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                     | DUT Type:<br>Portable Handset |                                                                                       | Page 169 of 305                 |

### 9.5.5

### NR Band n41

Table 9-141

NR Band n41 Measured  $P_{\max}$  for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) and/or DSI = 3 (Hotspot mode) / DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 100 MHz Bandwidth

| NR Band n41<br>100 MHz Bandwidth |         |           |                                                         |                                    |             |
|----------------------------------|---------|-----------|---------------------------------------------------------|------------------------------------|-------------|
| Modulation                       | RB Size | RB Offset | Channel                                                 | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
|                                  |         |           | 518598<br>(2592.99 MHz)<br><br>Conducted<br>Power [dBm] |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK       | 1       | 1         | 24.55                                                   | 0                                  | 0.0         |
|                                  | 1       | 137       | 24.42                                                   |                                    | 0.0         |
|                                  | 1       | 271       | 24.63                                                   |                                    | 0.0         |
|                                  | 135     | 0         | 24.27                                                   | 0-0.5                              | 0.5         |
|                                  | 135     | 69        | 24.48                                                   | 0                                  | 0.0         |
|                                  | 135     | 138       | 23.92                                                   | 0-0.5                              | 0.5         |
|                                  | 270     | 0         | 24.00                                                   |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK               | 1       | 1         | 24.42                                                   | 0                                  | 0.0         |
|                                  | 1       | 137       | <b>24.56</b>                                            |                                    | 0.0         |
|                                  | 1       | 271       | 24.29                                                   |                                    | 0.0         |
|                                  | 135     | 0         | 23.65                                                   | 0-1                                | 1.0         |
|                                  | 135     | 69        | <b>24.32</b>                                            | 0                                  | 0.0         |
|                                  | 135     | 138       | 23.43                                                   | 0-1                                | 1.0         |
|                                  | 270     | 0         | 23.60                                                   |                                    | 1.0         |
| DFT-s-OFDM<br>16QAM              | 1       | 1         | 23.51                                                   | 0-1                                | 1.0         |
| CP-OFDM<br>QPSK                  | 1       | 1         | 23.03                                                   | 0-1.5                              | 1.5         |

Note: NR Band n41 at 100 MHz bandwidth does not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

|                                      |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 170 of 305                 |

Table 9-142

NR Band n41 Measured  $P_{\max}$  for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) and/or DSI = 3 (Hotspot mode) / DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 90 MHz Bandwidth

| NR Band n41<br>90 MHz Bandwidth |         |           |                       |                         |                                    |             |
|---------------------------------|---------|-----------|-----------------------|-------------------------|------------------------------------|-------------|
|                                 |         |           | Channel               |                         | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 508200<br>(2541 MHz)  | 528996<br>(2644.98 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm] |                         |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 24.41                 | 24.50                   | 0                                  | 0.0         |
|                                 | 1       | 123       | 24.62                 | 24.79                   |                                    | 0.0         |
|                                 | 1       | 243       | 24.61                 | 24.44                   |                                    | 0.0         |
|                                 | 120     | 0         | 24.09                 | 23.80                   | 0-0.5                              | 0.5         |
|                                 | 120     | 63        | 24.62                 | 24.24                   | 0                                  | 0.0         |
|                                 | 120     | 125       | 24.21                 | 23.88                   | 0-0.5                              | 0.5         |
|                                 | 243     | 0         | 24.20                 | 23.74                   |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 24.52                 | 24.24                   | 0                                  | 0.0         |
|                                 | 1       | 123       | 24.77                 | 24.56                   |                                    | 0.0         |
|                                 | 1       | 243       | 24.63                 | 24.33                   |                                    | 0.0         |
|                                 | 120     | 0         | 23.42                 | 23.22                   | 0-1                                | 1.0         |
|                                 | 120     | 63        | 24.54                 | 24.25                   | 0                                  | 0.0         |
|                                 | 120     | 125       | 23.55                 | 23.30                   | 0-1                                | 1.0         |
|                                 | 243     | 0         | 23.61                 | 23.13                   |                                    | 1.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.98                 | 23.50                   | 0-1                                | 1.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.27                 | 22.82                   | 0-1.5                              | 1.5         |

|                                      |                                                                                                                                                                                                                             |                               |                                                                                       |                                 |
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| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br>Proud to be part of  <b>SAMSUNG</b> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                          | DUT Type:<br>Portable Handset |                                                                                       | Page 171 of 305                 |

Table 9-143

NR Band n41 Measured  $P_{\max}$  for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) and/or DSI = 3 (Hotspot mode) / DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 80 MHz Bandwidth

| NR Band n41<br>80 MHz Bandwidth |         |           |                         |                         |                                    |             |
|---------------------------------|---------|-----------|-------------------------|-------------------------|------------------------------------|-------------|
|                                 |         |           | Channel                 |                         | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 507204<br>(2536.02 MHz) | 529998<br>(2649.99 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm]   |                         |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 24.47                   | 24.33                   | 0                                  | 0.0         |
|                                 | 1       | 109       | 24.45                   | 24.42                   |                                    | 0.0         |
|                                 | 1       | 215       | 24.64                   | 24.61                   |                                    | 0.0         |
|                                 | 108     | 0         | 24.08                   | 24.02                   | 0-0.5                              | 0.5         |
|                                 | 108     | 55        | 24.52                   | 24.44                   | 0                                  | 0.0         |
|                                 | 108     | 109       | 24.25                   | 24.15                   | 0-0.5                              | 0.5         |
|                                 | 216     | 0         | 24.20                   | 24.02                   |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 24.58                   | 24.50                   | 0                                  | 0.0         |
|                                 | 1       | 109       | 25.16                   | 25.17                   |                                    | 0.0         |
|                                 | 1       | 215       | 24.74                   | 24.76                   |                                    | 0.0         |
|                                 | 108     | 0         | 23.44                   | 23.41                   | 0-1                                | 1.0         |
|                                 | 108     | 55        | 24.62                   | 24.59                   | 0                                  | 0.0         |
|                                 | 108     | 109       | 23.72                   | 23.51                   | 0-1                                | 1.0         |
|                                 | 216     | 0         | 23.55                   | 23.41                   |                                    | 1.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.43                   | 23.41                   | 0-1                                | 1.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.02                   | 22.91                   | 0-1.5                              | 1.5         |

FCC ID: A3LSMN986U



## SAR EVALUATION REPORT



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Document S/N:

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Test Dates:

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DUT Type:

Portable Handset

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Table 9-144

NR Band n41 Measured  $P_{\max}$  for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) and/or DSI = 3 (Hotspot mode) / DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 60 MHz Bandwidth

| NR Band n41<br>60 MHz Bandwidth |         |           |                       |                         |                         |                                    |             |
|---------------------------------|---------|-----------|-----------------------|-------------------------|-------------------------|------------------------------------|-------------|
|                                 |         |           | Channel               |                         |                         | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 505200<br>(2526 MHz)  | 518598<br>(2592.99 MHz) | 531996<br>(2659.98 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm] |                         |                         |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 24.61                 | 24.42                   | 24.21                   | 0                                  | 0.0         |
|                                 | 1       | 81        | 24.83                 | 24.66                   | 24.62                   |                                    | 0.0         |
|                                 | 1       | 160       | 25.16                 | 24.51                   | 24.48                   |                                    | 0.0         |
|                                 | 81      | 0         | 24.16                 | 23.88                   | 24.01                   | 0-0.5                              | 0.5         |
|                                 | 81      | 41        | 24.52                 | 24.35                   | 24.36                   | 0                                  | 0.0         |
|                                 | 81      | 81        | 24.26                 | 23.94                   | 23.95                   | 0-0.5                              | 0.5         |
|                                 | 162     | 0         | 24.01                 | 23.87                   | 23.83                   |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 24.58                 | 24.46                   | 24.25                   | 0                                  | 0.0         |
|                                 | 1       | 81        | 24.89                 | 24.49                   | 24.62                   |                                    | 0.0         |
|                                 | 1       | 160       | 24.90                 | 24.33                   | 24.32                   |                                    | 0.0         |
|                                 | 81      | 0         | 23.62                 | 23.24                   | 23.31                   | 0-1                                | 1.0         |
|                                 | 81      | 41        | 24.62                 | 24.27                   | 24.34                   | 0                                  | 0.0         |
|                                 | 81      | 81        | 23.69                 | 23.19                   | 23.17                   | 0-1                                | 1.0         |
|                                 | 162     | 0         | 23.64                 | 23.31                   | 23.27                   |                                    | 1.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.85                 | 23.77                   | 23.68                   | 0-1                                | 1.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 22.83                 | 22.83                   | 22.67                   | 0-1.5                              | 1.5         |

|                                      |                                                                                                                                                                                                                |                               |                                        |
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| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                             | DUT Type:<br>Portable Handset | Page 173 of 305                        |

Table 9-145

NR Band n41 Measured  $P_{\max}$  for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) and/or DSI = 3 (Hotspot mode) / DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 50 MHz Bandwidth

| NR Band n41<br>50 MHz Bandwidth |         |           |                         |                         |                         |                                    |             |
|---------------------------------|---------|-----------|-------------------------|-------------------------|-------------------------|------------------------------------|-------------|
|                                 |         |           | Channel                 |                         |                         | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 504204<br>(2521.02 MHz) | 518598<br>(2592.99 MHz) | 532998<br>(2664.99 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm]   |                         |                         |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 24.38                   | 24.47                   | 24.44                   | 0                                  | 0.0         |
|                                 | 1       | 67        | 24.96                   | 24.83                   | 24.90                   |                                    | 0.0         |
|                                 | 1       | 131       | 24.92                   | 24.80                   | 24.71                   |                                    | 0.0         |
|                                 | 64      | 0         | 23.96                   | 23.87                   | 23.97                   | 0-0.5                              | 0.5         |
|                                 | 64      | 35        | 24.31                   | 24.26                   | 24.28                   | 0                                  | 0.0         |
|                                 | 64      | 69        | 24.16                   | 24.12                   | 23.98                   | 0-0.5                              | 0.5         |
|                                 | 128     | 0         | 23.97                   | 23.92                   | 23.94                   |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 24.52                   | 24.76                   | 24.65                   | 0                                  | 0.0         |
|                                 | 1       | 67        | 24.62                   | 24.48                   | 24.55                   |                                    | 0.0         |
|                                 | 1       | 131       | 24.64                   | 24.35                   | 24.25                   |                                    | 0.0         |
|                                 | 64      | 0         | 23.50                   | 23.32                   | 23.36                   | 0-1                                | 1.0         |
|                                 | 64      | 35        | 24.59                   | 24.37                   | 24.46                   | 0                                  | 0.0         |
|                                 | 64      | 69        | 23.55                   | 23.55                   | 23.42                   | 0-1                                | 1.0         |
|                                 | 128     | 0         | 23.44                   | 23.36                   | 23.35                   |                                    | 1.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 24.11                   | 23.74                   | 23.56                   | 0-1                                | 1.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 22.82                   | 22.75                   | 22.44                   | 0-1.5                              | 1.5         |

|                                      |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 174 of 305                 |

Table 9-146

NR Band n41 Measured  $P_{\max}$  for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) and/or DSI = 3 (Hotspot mode) / DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 40 MHz Bandwidth

| NR Band n41<br>40 MHz Bandwidth |         |           |                         |                         |                         |                      |                                    |                                    |
|---------------------------------|---------|-----------|-------------------------|-------------------------|-------------------------|----------------------|------------------------------------|------------------------------------|
|                                 |         |           | Channel                 |                         |                         |                      | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>Allowed<br>per 3GPP<br>[dB] |
| Modulation                      | RB Size | RB Offset | 503202<br>(2516.01 MHz) | 513468<br>(2567.34 MHz) | 523734<br>(2618.67 MHz) | 534000<br>(2670 MHz) |                                    |                                    |
|                                 |         |           | Conducted Power [dBm]   |                         |                         |                      |                                    |                                    |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 24.68                   | 25.29                   | 24.83                   | 25.33                | 0                                  | 0.0                                |
|                                 | 1       | 53        | 25.31                   | 25.10                   | 24.98                   | 25.29                |                                    | 0.0                                |
|                                 | 1       | 104       | 25.09                   | 24.92                   | 24.96                   | 24.89                |                                    | 0.0                                |
|                                 | 50      | 0         | 24.57                   | 24.83                   | 24.62                   | 24.82                | 0-0.5                              | 0.5                                |
|                                 | 50      | 28        | 24.83                   | 25.09                   | 25.05                   | 25.25                | 0                                  | 0.0                                |
|                                 | 50      | 56        | 24.64                   | 24.56                   | 24.56                   | 25.00                | 0-0.5                              | 0.5                                |
|                                 | 100     | 0         | 24.36                   | 24.74                   | 24.37                   | 24.72                |                                    | 0.5                                |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 25.09                   | 25.35                   | 24.89                   | 25.28                | 0                                  | 0.0                                |
|                                 | 1       | 53        | 25.17                   | 25.09                   | 25.07                   | 25.19                |                                    | 0.0                                |
|                                 | 1       | 104       | 25.08                   | 25.07                   | 25.04                   | 24.85                |                                    | 0.0                                |
|                                 | 50      | 0         | 24.07                   | 24.20                   | 23.92                   | 24.35                | 0-1                                | 1.0                                |
|                                 | 50      | 28        | 24.86                   | 25.00                   | 24.85                   | 25.17                | 0                                  | 0.0                                |
|                                 | 50      | 56        | 23.97                   | 24.15                   | 23.94                   | 24.23                | 0-1                                | 1.0                                |
|                                 | 100     | 0         | 23.92                   | 24.21                   | 23.78                   | 24.07                |                                    | 1.0                                |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.42                   | 24.45                   | 23.71                   | 24.35                | 0-1                                | 1.0                                |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.31                   | 23.97                   | 23.59                   | 23.56                | 0-1.5                              | 1.5                                |

|                                      |                                                                                                                                                                                                                |                               |                                        |
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| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                             | DUT Type:<br>Portable Handset | Page 175 of 305                        |

Table 9-147

NR Band n41 Measured  $P_{\max}$  for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) and/or DSI = 3 (Hotspot mode) / DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 20 MHz Bandwidth

| NR Band n41<br>20 MHz Bandwidth |         |           |                         |                         |                         |                         |                         |                                    |             |
|---------------------------------|---------|-----------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------------------------------------|-------------|
|                                 |         |           | Channel                 |                         |                         |                         |                         | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 501204<br>(2506.02 MHz) | 509898<br>(2549.49 MHz) | 518598<br>(2592.99 MHz) | 527298<br>(2636.49 MHz) | 535998<br>(2679.99 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm]   |                         |                         |                         |                         |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 24.85                   | 24.95                   | 24.78                   | 24.75                   | 24.98                   | 0                                  | 0.0         |
|                                 | 1       | 26        | 24.88                   | 24.61                   | 24.52                   | 24.79                   | 24.91                   |                                    | 0.0         |
|                                 | 1       | 49        | 24.96                   | 24.83                   | 24.64                   | 24.68                   | 24.93                   |                                    | 0.0         |
|                                 | 25      | 0         | 24.54                   | 24.59                   | 24.29                   | 24.32                   | 24.62                   | 0-0.5                              | 0.5         |
|                                 | 25      | 13        | 24.86                   | 24.98                   | 24.55                   | 24.61                   | 24.78                   | 0                                  | 0.0         |
|                                 | 25      | 26        | 24.29                   | 24.53                   | 24.28                   | 24.38                   | 24.63                   | 0-0.5                              | 0.5         |
|                                 | 50      | 0         | 24.27                   | 24.37                   | 24.18                   | 24.18                   | 24.52                   |                                    | 0.5         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 25.12                   | 25.09                   | 24.74                   | 24.57                   | 25.03                   | 0                                  | 0.0         |
|                                 | 1       | 26        | 24.92                   | 25.07                   | 24.56                   | 24.71                   | 24.88                   |                                    | 0.0         |
|                                 | 1       | 49        | 24.99                   | 25.05                   | 24.67                   | 24.52                   | 24.82                   |                                    | 0.0         |
|                                 | 25      | 0         | 23.91                   | 24.23                   | 23.55                   | 23.75                   | 23.98                   | 0-1                                | 1.0         |
|                                 | 25      | 13        | 24.76                   | 24.91                   | 24.59                   | 24.78                   | 24.88                   | 0                                  | 0.0         |
|                                 | 25      | 26        | 23.57                   | 23.99                   | 23.56                   | 23.69                   | 23.72                   | 0-1                                | 1.0         |
|                                 | 50      | 0         | 23.86                   | 23.98                   | 23.65                   | 23.56                   | 23.97                   |                                    | 1.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 24.18                   | 23.77                   | 23.68                   | 23.71                   | 23.85                   | 0-1                                | 1.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.31                   | 23.22                   | 23.24                   | 23.58                   | 23.95                   | 0-1.5                              | 1.5         |

|                                      |                                                                                                                                                                                                                               |                               |                                        |
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**Table 9-148**  
**NR Band n41 Measured  $P_{max}$  for DSI = 2 (Head) - 100 MHz Bandwidth**

| NR Band n41<br>100 MHz Bandwidth |         |           |                                                         |                                    |             |
|----------------------------------|---------|-----------|---------------------------------------------------------|------------------------------------|-------------|
| Modulation                       | RB Size | RB Offset | Channel                                                 | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
|                                  |         |           | 518598<br>(2592.99 MHz)<br><br>Conducted<br>Power [dBm] |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK       | 1       | 1         | 23.01                                                   | 0                                  | 0.0         |
|                                  | 1       | 137       | 22.94                                                   |                                    | 0.0         |
|                                  | 1       | 271       | 22.82                                                   |                                    | 0.0         |
|                                  | 135     | 0         | 22.88                                                   | 0-0.5                              | 0.0         |
|                                  | 135     | 69        | 22.81                                                   | 0                                  | 0.0         |
|                                  | 135     | 138       | 22.92                                                   | 0-0.5                              | 0.0         |
|                                  | 270     | 0         | 22.72                                                   |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK               | 1       | 1         | <b>22.91</b>                                            | 0                                  | 0.0         |
|                                  | 1       | 137       | 22.82                                                   |                                    | 0.0         |
|                                  | 1       | 271       | 22.87                                                   |                                    | 0.0         |
|                                  | 135     | 0         | <b>22.87</b>                                            | 0-1                                | 0.0         |
|                                  | 135     | 69        | 22.85                                                   | 0                                  | 0.0         |
|                                  | 135     | 138       | 22.83                                                   | 0-1                                | 0.0         |
|                                  | 270     | 0         | 22.82                                                   |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM              | 1       | 1         | 23.12                                                   | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                  | 1       | 1         | 22.87                                                   | 0-1.5                              | 0.0         |

Note: NR Band n41 at 100 MHz bandwidth does not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

|                                             |                                                                                                                                                                                                                             |                                      |                                                                                       |                                        |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                   | <b>DUT Type:</b><br>Portable Handset | Page 177 of 305                                                                       |                                        |

**Table 9-149**  
**NR Band n41 Measured P<sub>max</sub> for DSI = 2 (Head) - 90 MHz Bandwidth**

| NR Band n41<br>90 MHz Bandwidth |         |           |                       |                         |                                    |             |
|---------------------------------|---------|-----------|-----------------------|-------------------------|------------------------------------|-------------|
|                                 |         |           | Channel               |                         | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 508200<br>(2541 MHz)  | 528996<br>(2644.98 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm] |                         |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 22.94                 | 22.86                   | 0                                  | 0.0         |
|                                 | 1       | 123       | 22.97                 | 22.98                   |                                    | 0.0         |
|                                 | 1       | 243       | 23.16                 | 22.78                   |                                    | 0.0         |
|                                 | 120     | 0         | 22.94                 | 22.81                   | 0-0.5                              | 0.0         |
|                                 | 120     | 63        | 23.09                 | 22.86                   | 0                                  | 0.0         |
|                                 | 120     | 125       | 22.93                 | 22.85                   | 0-0.5                              | 0.0         |
|                                 | 243     | 0         | 23.05                 | 22.79                   |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 23.06                 | 23.15                   | 0                                  | 0.0         |
|                                 | 1       | 123       | 23.12                 | 22.96                   |                                    | 0.0         |
|                                 | 1       | 243       | 23.18                 | 22.87                   |                                    | 0.0         |
|                                 | 120     | 0         | 22.89                 | 22.90                   | 0-1                                | 0.0         |
|                                 | 120     | 63        | 23.05                 | 22.89                   | 0                                  | 0.0         |
|                                 | 120     | 125       | 23.11                 | 22.85                   | 0-1                                | 0.0         |
|                                 | 243     | 0         | 23.02                 | 22.74                   |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 22.87                 | 23.14                   | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 22.90                 | 23.03                   | 0-1.5                              | 0.0         |

|                                      |                                                                                                                                                                                                                               |                               |                                        |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                            | DUT Type:<br>Portable Handset | Page 178 of 305                        |

**Table 9-150**  
**NR Band n41 Measured P<sub>max</sub> for DSI = 2 (Head) - 80 MHz Bandwidth**

| NR Band n41<br>80 MHz Bandwidth |         |           |                         |                         |                                    |             |
|---------------------------------|---------|-----------|-------------------------|-------------------------|------------------------------------|-------------|
|                                 |         |           | Channel                 |                         | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 507204<br>(2536.02 MHz) | 529998<br>(2649.99 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm]   |                         |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 23.12                   | 23.07                   | 0                                  | 0.0         |
|                                 | 1       | 109       | 23.22                   | 23.14                   |                                    | 0.0         |
|                                 | 1       | 215       | 23.15                   | 23.15                   |                                    | 0.0         |
|                                 | 108     | 0         | 23.06                   | 23.12                   | 0-0.5                              | 0.0         |
|                                 | 108     | 55        | 23.16                   | 23.05                   | 0                                  | 0.0         |
|                                 | 108     | 109       | 23.22                   | 23.12                   | 0-0.5                              | 0.0         |
|                                 | 216     | 0         | 23.18                   | 22.92                   |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 23.02                   | 23.01                   | 0                                  | 0.0         |
|                                 | 1       | 109       | 23.19                   | 23.09                   |                                    | 0.0         |
|                                 | 1       | 215       | 23.02                   | 22.87                   |                                    | 0.0         |
|                                 | 108     | 0         | 23.08                   | 23.17                   | 0-1                                | 0.0         |
|                                 | 108     | 55        | 23.14                   | 23.11                   | 0                                  | 0.0         |
|                                 | 108     | 109       | 23.27                   | 22.91                   | 0-1                                | 0.0         |
|                                 | 216     | 0         | 23.05                   | 22.99                   |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.31                   | 23.24                   | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.10                   | 23.01                   | 0-1.5                              | 0.0         |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 179 of 305                                                                       |                                        |

**Table 9-151**  
**NR Band n41 Measured P<sub>max</sub> for DSI = 2 (Head) - 60 MHz Bandwidth**

| NR Band n41<br>60 MHz Bandwidth |         |           |                       |                         |                         |                                    |             |
|---------------------------------|---------|-----------|-----------------------|-------------------------|-------------------------|------------------------------------|-------------|
|                                 |         |           | Channel               |                         |                         | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 505200<br>(2526 MHz)  | 518598<br>(2592.99 MHz) | 531996<br>(2659.98 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm] |                         |                         |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 23.08                 | 23.06                   | 23.08                   | 0                                  | 0.0         |
|                                 | 1       | 81        | 23.12                 | 22.85                   | 23.07                   |                                    | 0.0         |
|                                 | 1       | 160       | 23.35                 | 22.90                   | 22.91                   |                                    | 0.0         |
|                                 | 81      | 0         | 23.16                 | 22.89                   | 22.98                   | 0-0.5                              | 0.0         |
|                                 | 81      | 41        | 23.11                 | 22.92                   | 22.95                   | 0                                  | 0.0         |
|                                 | 81      | 81        | 23.27                 | 22.87                   | 22.97                   | 0-0.5                              | 0.0         |
|                                 | 162     | 0         | 23.28                 | 22.84                   | 22.93                   |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 23.01                 | 22.98                   | 23.07                   | 0                                  | 0.0         |
|                                 | 1       | 81        | 23.28                 | 23.14                   | 23.21                   |                                    | 0.0         |
|                                 | 1       | 160       | 23.21                 | 22.86                   | 22.97                   |                                    | 0.0         |
|                                 | 81      | 0         | 23.13                 | 22.91                   | 23.03                   | 0-1                                | 0.0         |
|                                 | 81      | 41        | 23.07                 | 22.85                   | 22.96                   | 0                                  | 0.0         |
|                                 | 81      | 81        | 23.26                 | 22.83                   | 23.01                   | 0-1                                | 0.0         |
|                                 | 162     | 0         | 23.14                 | 22.94                   | 22.97                   |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.21                 | 23.07                   | 23.00                   | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.33                 | 23.18                   | 23.02                   | 0-1.5                              | 0.0         |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 180 of 305                                                                       |                                        |

**Table 9-152**  
**NR Band n41 Measured P<sub>max</sub> for DSI = 2 (Head) - 50 MHz Bandwidth**

| NR Band n41<br>50 MHz Bandwidth |         |           |                         |                         |                         |                                    |             |
|---------------------------------|---------|-----------|-------------------------|-------------------------|-------------------------|------------------------------------|-------------|
|                                 |         |           | Channel                 |                         |                         | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
| Modulation                      | RB Size | RB Offset | 504204<br>(2521.02 MHz) | 518598<br>(2592.99 MHz) | 532998<br>(2664.99 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm]   |                         |                         |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 22.84                   | 23.04                   | 23.07                   | 0                                  | 0.0         |
|                                 | 1       | 67        | 23.04                   | 22.97                   | 22.98                   |                                    | 0.0         |
|                                 | 1       | 131       | 23.02                   | 22.81                   | 22.84                   |                                    | 0.0         |
|                                 | 64      | 0         | 23.03                   | 22.79                   | 22.93                   | 0-0.5                              | 0.0         |
|                                 | 64      | 35        | 22.97                   | 22.94                   | 22.90                   | 0                                  | 0.0         |
|                                 | 64      | 69        | 22.85                   | 22.92                   | 22.83                   | 0-0.5                              | 0.0         |
|                                 | 128     | 0         | 22.94                   | 22.80                   | 22.78                   |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 23.07                   | 23.06                   | 22.95                   | 0                                  | 0.0         |
|                                 | 1       | 67        | 23.11                   | 22.84                   | 22.73                   |                                    | 0.0         |
|                                 | 1       | 131       | 23.22                   | 22.87                   | 22.94                   |                                    | 0.0         |
|                                 | 64      | 0         | 23.07                   | 22.78                   | 22.88                   | 0-1                                | 0.0         |
|                                 | 64      | 35        | 23.05                   | 22.93                   | 22.86                   | 0                                  | 0.0         |
|                                 | 64      | 69        | 22.92                   | 22.82                   | 22.76                   | 0-1                                | 0.0         |
|                                 | 128     | 0         | 23.01                   | 22.86                   | 22.81                   |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 22.97                   | 22.73                   | 22.83                   | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 22.83                   | 22.63                   | 22.72                   | 0-1.5                              | 0.0         |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 181 of 305                                                                       |                                        |

**Table 9-153**  
**NR Band n41 Measured P<sub>max</sub> for DSI = 2 (Head) - 40 MHz Bandwidth**

| NR Band n41<br>40 MHz Bandwidth |         |           |                         |                         |                         |                      |                                    |                                    |
|---------------------------------|---------|-----------|-------------------------|-------------------------|-------------------------|----------------------|------------------------------------|------------------------------------|
|                                 |         |           | Channel                 |                         |                         |                      | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>Allowed<br>per 3GPP<br>[dB] |
| Modulation                      | RB Size | RB Offset | 503202<br>(2516.01 MHz) | 513468<br>(2567.34 MHz) | 523734<br>(2618.67 MHz) | 534000<br>(2670 MHz) |                                    |                                    |
|                                 |         |           | Conducted Power [dBm]   |                         |                         |                      |                                    |                                    |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 23.28                   | 23.42                   | 23.35                   | 23.12                | 0                                  | 0.0                                |
|                                 | 1       | 53        | 23.44                   | 23.49                   | 23.32                   | 23.26                |                                    | 0.0                                |
|                                 | 1       | 104       | 23.02                   | 23.18                   | 23.19                   | 23.33                |                                    | 0.0                                |
|                                 | 50      | 0         | 23.36                   | 23.30                   | 23.11                   | 23.27                | 0-0.5                              | 0.0                                |
|                                 | 50      | 28        | 23.24                   | 23.24                   | 23.09                   | 23.34                | 0                                  | 0.0                                |
|                                 | 50      | 56        | 23.25                   | 23.31                   | 23.13                   | 23.29                | 0-0.5                              | 0.0                                |
|                                 | 100     | 0         | 23.26                   | 23.27                   | 23.12                   | 23.30                |                                    | 0.0                                |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 23.25                   | 23.50                   | 23.21                   | 23.20                | 0                                  | 0.0                                |
|                                 | 1       | 53        | 23.36                   | 23.38                   | 23.16                   | 23.39                |                                    | 0.0                                |
|                                 | 1       | 104       | 23.29                   | 23.39                   | 23.21                   | 23.23                |                                    | 0.0                                |
|                                 | 50      | 0         | 23.32                   | 23.36                   | 23.10                   | 23.25                | 0-1                                | 0.0                                |
|                                 | 50      | 28        | 23.21                   | 23.20                   | 23.07                   | 23.34                | 0                                  | 0.0                                |
|                                 | 50      | 56        | 23.34                   | 23.39                   | 23.18                   | 23.41                | 0-1                                | 0.0                                |
|                                 | 100     | 0         | 23.23                   | 23.33                   | 23.10                   | 23.36                |                                    | 0.0                                |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.16                   | 23.45                   | 23.43                   | 23.18                | 0-1                                | 0.0                                |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.11                   | 23.48                   | 23.31                   | 23.27                | 0-1.5                              | 0.0                                |

|                                             |                                                                                                                                                               |                                      |                                                                                       |                                        |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the Samsung ecosystem</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                     | <b>DUT Type:</b><br>Portable Handset | Page 182 of 305                                                                       |                                        |

**Table 9-154**  
**NR Band n41 Measured  $P_{\max}$  for DSI = 2 (Head) - 20 MHz Bandwidth**

| NR Band n41<br>20 MHz Bandwidth |         |           |                         |                         |                         |                         |                         |                                    |             |
|---------------------------------|---------|-----------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------------------------------------|-------------|
| Modulation                      | RB Size | RB Offset | Channel                 |                         |                         |                         |                         | MPR<br>Allowed per<br>3GPP<br>[dB] | MPR<br>[dB] |
|                                 |         |           | 501204<br>(2506.02 MHz) | 509898<br>(2549.49 MHz) | 518598<br>(2592.99 MHz) | 527298<br>(2636.49 MHz) | 535998<br>(2679.99 MHz) |                                    |             |
|                                 |         |           | Conducted Power [dBm]   |                         |                         |                         |                         |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 23.15                   | 23.24                   | 22.95                   | 22.86                   | 23.18                   | 0                                  | 0.0         |
|                                 | 1       | 26        | 23.13                   | 23.14                   | 23.11                   | 22.88                   | 23.15                   |                                    | 0.0         |
|                                 | 1       | 49        | 23.39                   | 22.98                   | 23.17                   | 23.00                   | 23.07                   |                                    | 0.0         |
|                                 | 25      | 0         | 23.32                   | 22.94                   | 23.00                   | 23.04                   | 23.08                   | 0-0.5                              | 0.0         |
|                                 | 25      | 13        | 23.33                   | 23.25                   | 23.11                   | 22.98                   | 23.01                   | 0                                  | 0.0         |
|                                 | 25      | 26        | 23.14                   | 23.09                   | 22.93                   | 23.02                   | 23.16                   | 0-0.5                              | 0.0         |
|                                 | 50      | 0         | 23.05                   | 23.04                   | 22.99                   | 23.14                   | 23.24                   |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 23.08                   | 23.10                   | 22.91                   | 23.09                   | 23.04                   | 0                                  | 0.0         |
|                                 | 1       | 26        | 23.12                   | 22.96                   | 22.96                   | 23.02                   | 23.12                   |                                    | 0.0         |
|                                 | 1       | 49        | 22.97                   | 23.13                   | 22.78                   | 22.96                   | 23.08                   |                                    | 0.0         |
|                                 | 25      | 0         | 23.01                   | 23.02                   | 22.85                   | 23.01                   | 23.13                   | 0-1                                | 0.0         |
|                                 | 25      | 13        | 22.98                   | 23.20                   | 22.79                   | 22.95                   | 23.22                   | 0                                  | 0.0         |
|                                 | 25      | 26        | 23.07                   | 23.07                   | 22.96                   | 22.89                   | 23.12                   | 0-1                                | 0.0         |
|                                 | 50      | 0         | 23.13                   | 23.21                   | 22.94                   | 22.93                   | 23.17                   |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.05                   | 23.10                   | 22.90                   | 23.04                   | 23.14                   | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.35                   | 23.17                   | 23.10                   | 22.99                   | 22.92                   | 0-1.5                              | 0.0         |

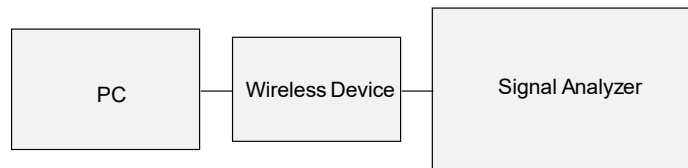


**Figure 9-5**  
**Power Measurement Setup**

|                                      |                                                                                                                                                                                                                 |                               |                                                                                                                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| FCC ID: A3LSMN986U                   | <br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>  | <br><b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                              | DUT Type:<br>Portable Handset | Page 183 of 305                                                                                                                 |

## 9.6 WLAN Conducted Powers

**Table 9-155**  
**2.4 GHz WLAN Maximum Average RF Power – Ant 1**

| 2.4GHz Conducted Power [dBm] |         |                        |         |         |          |
|------------------------------|---------|------------------------|---------|---------|----------|
| Freq [MHz]                   | Channel | IEEE Transmission Mode |         |         |          |
|                              |         | 802.11b                | 802.11g | 802.11n | 802.11ax |
|                              |         | Average                | Average | Average | Average  |
| 2412                         | 1       | 20.41                  | 18.04   | 15.72   | 16.01    |
| 2417                         | 2       |                        |         | 18.37   | 17.66    |
| 2437                         | 6       | 20.11                  | 18.31   | 18.48   | 17.76    |
| 2457                         | 10      |                        |         | 18.46   | 17.65    |
| 2462                         | 11      | 20.49                  | 17.94   | 14.19   | 13.76    |

**Table 9-156**  
**2.4 GHz WLAN Maximum Average RF Power – Ant 2**

| 2.4GHz Conducted Power [dBm] |         |                        |         |         |          |
|------------------------------|---------|------------------------|---------|---------|----------|
| Freq [MHz]                   | Channel | IEEE Transmission Mode |         |         |          |
|                              |         | 802.11b                | 802.11g | 802.11n | 802.11ax |
|                              |         | Average                | Average | Average | Average  |
| 2412                         | 1       | 20.43                  | 17.84   | 15.89   | 16.11    |
| 2417                         | 2       |                        |         | 18.45   | 17.48    |
| 2437                         | 6       | 20.15                  | 18.12   | 18.42   | 17.52    |
| 2457                         | 10      |                        |         | 18.40   | 17.59    |
| 2462                         | 11      | 20.01                  | 18.21   | 13.67   | 13.58    |

|                                             |                                                                                                                                                                                                                             |                                      |                                                                                       |                                        |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                   | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 184 of 305                        |



**Table 9-157**  
**5 GHz WLAN Maximum Average RF Power – Ant 1**

| 5GHz (20MHz) Conducted Power [dBm] |         |                        |         |          |          |
|------------------------------------|---------|------------------------|---------|----------|----------|
| Freq [MHz]                         | Channel | IEEE Transmission Mode |         |          |          |
|                                    |         | 802.11a                | 802.11n | 802.11ac | 802.11ax |
|                                    |         | Average                | Average | Average  | Average  |
| 5180                               | 36      | 18.30                  | 17.39   | 17.44    | 16.91    |
| 5200                               | 40      | 18.26                  | 18.30   | 18.24    | 17.56    |
| 5220                               | 44      | 18.18                  | 18.25   | 18.16    | 17.44    |
| 5240                               | 48      | 18.26                  | 18.22   | 18.23    | 17.50    |
| 5260                               | 52      | 18.13                  | 18.24   | 18.16    | 17.51    |
| 5280                               | 56      | 18.12                  | 18.25   | 18.19    | 17.52    |
| 5300                               | 60      | 18.18                  | 18.30   | 18.28    | 17.63    |
| 5320                               | 64      | 18.15                  | 16.71   | 16.74    | 17.57    |
| 5500                               | 100     | 17.96                  | 17.90   | 17.97    | 17.33    |
| 5600                               | 120     | 18.28                  | 18.23   | 18.23    | 17.63    |
| 5620                               | 124     | 18.22                  | 18.26   | 18.17    | 17.56    |
| 5720                               | 144     | 18.17                  | 18.20   | 18.11    | 17.50    |
| 5745                               | 149     | 18.03                  | 18.05   | 17.93    | 17.34    |
| 5785                               | 157     | 18.04                  | 18.04   | 18.02    | 17.34    |
| 5825                               | 165     | 17.74                  | 17.78   | 17.73    | 17.98    |

|                                             |                                                                                                                                                                                                                             |                                      |                                                                                       |                                        |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                   | <b>DUT Type:</b><br>Portable Handset | Page 185 of 305                                                                       |                                        |

**Table 9-158**  
**5 GHz WLAN Maximum Average RF Power – Ant 2**

| 5GHz (20MHz) Conducted Power [dBm] |         |                        |         |          |          |
|------------------------------------|---------|------------------------|---------|----------|----------|
| Freq [MHz]                         | Channel | IEEE Transmission Mode |         |          |          |
|                                    |         | 802.11a                | 802.11n | 802.11ac | 802.11ax |
|                                    |         | Average                | Average | Average  | Average  |
| 5180                               | 36      | 18.47                  | 17.40   | 17.44    | 16.89    |
| 5200                               | 40      | 18.40                  | 18.43   | 18.36    | 17.74    |
| 5220                               | 44      | 18.32                  | 18.32   | 18.34    | 17.65    |
| 5240                               | 48      | 18.23                  | 18.31   | 18.31    | 17.68    |
| 5260                               | 52      | 18.30                  | 18.31   | 18.30    | 17.65    |
| 5280                               | 56      | 18.26                  | 18.20   | 18.21    | 17.61    |
| 5300                               | 60      | 18.25                  | 18.25   | 18.26    | 17.62    |
| 5320                               | 64      | 18.12                  | 16.49   | 16.52    | 17.46    |
| 5500                               | 100     | 17.93                  | 18.10   | 18.06    | 17.52    |
| 5600                               | 120     | 17.90                  | 18.18   | 18.10    | 17.52    |
| 5620                               | 124     | 18.19                  | 18.16   | 18.10    | 17.44    |
| 5720                               | 144     | 18.42                  | 18.32   | 18.27    | 17.65    |
| 5745                               | 149     | 18.33                  | 18.30   | 18.26    | 17.35    |
| 5785                               | 157     | 18.49                  | 18.48   | 18.45    | 17.59    |
| 5825                               | 165     | 18.49                  | 18.49   | 18.49    | 17.58    |

**Table 9-159**  
**5 GHz WLAN Maximum Average RF Power – MIMO**

| 5GHz (20MHz) 802.11n Conducted Power [dBm] |         |       |       |       |
|--------------------------------------------|---------|-------|-------|-------|
| Freq [MHz]                                 | Channel | ANT1  | ANT2  | MIMO  |
| 5180                                       | 36      | 17.39 | 17.40 | 20.41 |
| 5200                                       | 40      | 18.30 | 18.43 | 21.38 |
| 5220                                       | 44      | 18.25 | 18.32 | 21.30 |
| 5240                                       | 48      | 18.22 | 18.31 | 21.28 |
| 5260                                       | 52      | 18.24 | 18.31 | 21.29 |
| 5280                                       | 56      | 18.25 | 18.20 | 21.24 |
| 5300                                       | 60      | 18.30 | 18.25 | 21.29 |
| 5320                                       | 64      | 16.71 | 16.49 | 19.61 |
| 5500                                       | 100     | 17.90 | 18.10 | 21.01 |
| 5600                                       | 120     | 18.23 | 18.18 | 21.22 |
| 5620                                       | 124     | 18.26 | 18.16 | 21.22 |
| 5720                                       | 144     | 18.20 | 18.32 | 21.27 |
| 5GHz (40MHz) 802.11n Conducted Power [dBm] |         |       |       |       |
| Freq [MHz]                                 | Channel | ANT1  | ANT2  | MIMO  |
| 5755                                       | 151     | 16.98 | 16.92 | 19.96 |
| 5795                                       | 159     | 17.00 | 16.84 | 19.93 |

|                                             |                                                                                                                                                                                                                                   |                                      |                                                                                       |                                        |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the</small>  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                         | <b>DUT Type:</b><br>Portable Handset | Page 186 of 305                                                                       |                                        |

**Table 9-160**  
**Maximum Output Powers During Conditions with 2.4 GHz and 5 GHz WLAN**

| 2.4GHz 802.11n Conducted Power [dBm]        |         |       |       |
|---------------------------------------------|---------|-------|-------|
| Freq [MHz]                                  | Channel | ANT1  | ANT2  |
| 2412                                        | 1       | 15.90 | 15.44 |
| 2437                                        | 6       | 15.67 | 15.99 |
| 2457                                        | 10      | 15.43 | 15.83 |
| 2462                                        | 11      | 14.49 | 13.74 |
| 5GHz (80MHz) 802.11ac Conducted Power [dBm] |         |       |       |
| Freq [MHz]                                  | Channel | ANT1  | ANT2  |
| 5210                                        | 42      | 12.01 | 12.99 |
| 5290                                        | 58      | 12.97 | 12.83 |
| 5530                                        | 106     | 12.20 | 12.51 |
| 5610                                        | 122     | 12.50 | 12.54 |
| 5690                                        | 138     | 12.61 | 12.62 |
| 5775                                        | 155     | 12.74 | 12.88 |

**Table 9-161**  
**2.4 GHz WLAN Reduced Average RF Power– Ant 1**

| 2.4GHz Conducted Power [dBm] |         |                        |         |         |
|------------------------------|---------|------------------------|---------|---------|
| Freq [MHz]                   | Channel | IEEE Transmission Mode |         |         |
|                              |         | 802.11b                | 802.11g | 802.11n |
|                              |         | Average                | Average | Average |
| 2412                         | 1       | 15.99                  | 15.98   | 15.90   |
| 2437                         | 6       | 15.76                  | 15.76   | 15.67   |
| 2457                         | 10      |                        |         | 15.43   |
| 2462                         | 11      | 15.15                  | 15.71   | 14.49   |

**Table 9-162**  
**2.4 GHz WLAN Reduced Average RF Power – Ant 2**

| 2.4GHz Conducted Power [dBm] |         |                        |         |         |
|------------------------------|---------|------------------------|---------|---------|
| Freq [MHz]                   | Channel | IEEE Transmission Mode |         |         |
|                              |         | 802.11b                | 802.11g | 802.11n |
|                              |         | Average                | Average | Average |
| 2412                         | 1       | 15.30                  | 15.85   | 15.44   |
| 2437                         | 6       | 15.98                  | 15.90   | 15.99   |
| 2457                         | 10      |                        |         | 15.83   |
| 2462                         | 11      | 15.52                  | 15.87   | 13.74   |

|                                             |                                                                                                                                                          |                                      |                                                                                       |                                        |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the HARMAN group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                | <b>DUT Type:</b><br>Portable Handset | Page 187 of 305                                                                       |                                        |

**Table 9-163**  
**5 GHz WLAN Reduced Average RF Power – Ant 1**

| 5GHz (80MHz) Conducted Power [dBm] |         |                        |
|------------------------------------|---------|------------------------|
| Freq [MHz]                         | Channel | IEEE Transmission Mode |
|                                    |         | 802.11ac               |
|                                    |         | Average                |
| 5210                               | 42      | 12.01                  |
| 5290                               | 58      | 12.97                  |
| 5530                               | 106     | 12.20                  |
| 5610                               | 122     | 12.50                  |
| 5690                               | 138     | 12.61                  |
| 5775                               | 155     | 12.74                  |

**Table 9-164**  
**5 GHz WLAN Reduced Average RF Power – Ant 2**

| 5GHz (80MHz) Conducted Power [dBm] |         |                        |
|------------------------------------|---------|------------------------|
| Freq [MHz]                         | Channel | IEEE Transmission Mode |
|                                    |         | 802.11ac               |
|                                    |         | Average                |
| 5210                               | 42      | 12.99                  |
| 5290                               | 58      | 12.83                  |
| 5530                               | 106     | 12.51                  |
| 5610                               | 122     | 12.54                  |
| 5690                               | 138     | 12.62                  |
| 5775                               | 155     | 12.88                  |

|                                      |                                                                                                                                                          |                               |                                                                                       |                                 |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of the ROEMER group</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                       | DUT Type:<br>Portable Handset |                                                                                       | Page 188 of 305                 |

**Table 9-165**  
**5 GHz WLAN Reduced Average RF Power – MIMO**

| 5GHz (80MHz) 802.11ac Conducted Power [dBm] |         |       |       |       |
|---------------------------------------------|---------|-------|-------|-------|
| Freq [MHz]                                  | Channel | ANT1  | ANT2  | MIMO  |
| 5210                                        | 42      | 12.01 | 12.99 | 15.54 |
| 5290                                        | 58      | 12.97 | 12.83 | 15.91 |
| 5530                                        | 106     | 12.20 | 12.51 | 15.37 |
| 5610                                        | 122     | 12.50 | 12.54 | 15.53 |
| 5690                                        | 138     | 12.61 | 12.62 | 15.63 |
| 5775                                        | 155     | 12.74 | 12.88 | 15.82 |

**Table 9-166**  
**Reduced Output Powers During Conditions with 2.4 GHz and 5 GHz WLAN**

| 2.4GHz 802.11n Conducted Power [dBm] |         |       |       |
|--------------------------------------|---------|-------|-------|
| Freq [MHz]                           | Channel | ANT1  | ANT2  |
| 2412                                 | 1       | 12.57 | 12.79 |
| 2437                                 | 6       | 12.63 | 12.87 |
| 2462                                 | 11      | 12.57 | 12.84 |

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.

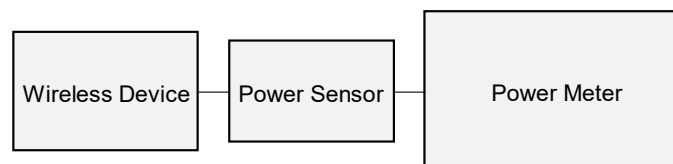


**Figure 9-6**  
**Power Measurement Setup**

|                                      |                                                                                                                                                                                                                 |                               |                                        |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                   | <br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                              | DUT Type:<br>Portable Handset | Page 189 of 305                        |

## 9.7 Bluetooth Conducted Powers

Table 9-167  
Bluetooth Average RF Power

| Frequency<br>[MHz] | Data<br>Rate<br>[Mbps] | Channel<br>No. | Avg Conducted<br>Power |        |
|--------------------|------------------------|----------------|------------------------|--------|
|                    |                        |                | [dBm]                  | [mW]   |
| 2402               | 1.0                    | 0              | 14.69                  | 29.448 |
| 2441               | 1.0                    | 39             | 15.69                  | 37.052 |
| 2480               | 1.0                    | 78             | 16.26                  | 42.235 |
| 2402               | 2.0                    | 0              | 10.45                  | 11.096 |
| 2441               | 2.0                    | 39             | 10.73                  | 11.832 |
| 2480               | 2.0                    | 78             | 10.62                  | 11.524 |
| 2402               | 3.0                    | 0              | 10.68                  | 11.705 |
| 2441               | 3.0                    | 39             | 11.41                  | 13.836 |
| 2480               | 3.0                    | 78             | 10.70                  | 11.759 |

|                                             |                                                                                                                                                                                                                             |                                      |                                                                                       |                                        |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  <b>SAMSUNG</b> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                   | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 190 of 305                        |



Figure 9-7  
Bluetooth Transmission Plot

Equation 9-1  
Bluetooth Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.90\text{ms}}{3.75\text{ms}} * 100\% = 77.3\%$$

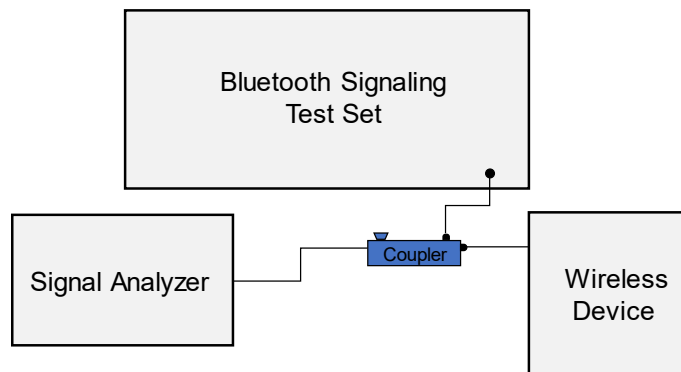


Figure 9-8  
Power Measurement Setup

|                                      |                                                                                                                                                                                                       |                               |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  PCTEST<br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                    | DUT Type:<br>Portable Handset |                                                                                       | Page 191 of 305                 |

# 10 SYSTEM VERIFICATION

## 10.1 Tissue Verification

Table 10-1  
Measured Head Tissue Properties

| Calibrated for Tests Performed on: | Tissue Type | Tissue Temp During Calibration (°C) | Measured Frequency (MHz) | Measured Conductivity, $\sigma$ (S/m) | Measured Dielectric Constant, $\epsilon$ | TARGET Conductivity, $\sigma$ (S/m) | TARGET Dielectric Constant, $\epsilon$ | % dev $\sigma$ | % dev $\epsilon$ |
|------------------------------------|-------------|-------------------------------------|--------------------------|---------------------------------------|------------------------------------------|-------------------------------------|----------------------------------------|----------------|------------------|
| 05/13/2020                         | 750 Head    | 21.1                                | 680                      | 0.847                                 | 43.753                                   | 0.888                               | 42.305                                 | -4.62%         | 3.42%            |
|                                    |             |                                     | 695                      | 0.853                                 | 43.701                                   | 0.889                               | 42.227                                 | -4.05%         | 3.49%            |
|                                    |             |                                     | 700                      | 0.854                                 | 43.686                                   | 0.889                               | 42.201                                 | -3.94%         | 3.52%            |
|                                    |             |                                     | 710                      | 0.858                                 | 43.656                                   | 0.890                               | 42.149                                 | -3.60%         | 3.58%            |
|                                    |             |                                     | 725                      | 0.863                                 | 43.615                                   | 0.891                               | 42.071                                 | -3.14%         | 3.67%            |
|                                    |             |                                     | 750                      | 0.871                                 | 43.529                                   | 0.894                               | 41.942                                 | -2.57%         | 3.78%            |
|                                    |             |                                     | 770                      | 0.878                                 | 43.462                                   | 0.895                               | 41.838                                 | -1.90%         | 3.88%            |
|                                    |             |                                     | 785                      | 0.884                                 | 43.420                                   | 0.896                               | 41.760                                 | -1.34%         | 3.98%            |
| 05/17/2020                         | 750 Head    | 24.0                                | 800                      | 0.889                                 | 43.384                                   | 0.897                               | 41.682                                 | -0.89%         | 4.08%            |
|                                    |             |                                     | 680                      | 0.884                                 | 42.699                                   | 0.888                               | 42.305                                 | -0.45%         | 0.93%            |
|                                    |             |                                     | 695                      | 0.889                                 | 42.652                                   | 0.889                               | 42.227                                 | 0.00%          | 1.01%            |
|                                    |             |                                     | 700                      | 0.891                                 | 42.638                                   | 0.889                               | 42.201                                 | 0.22%          | 1.04%            |
|                                    |             |                                     | 710                      | 0.894                                 | 42.604                                   | 0.890                               | 42.149                                 | 0.45%          | 1.08%            |
|                                    |             |                                     | 725                      | 0.899                                 | 42.559                                   | 0.891                               | 42.071                                 | 0.90%          | 1.16%            |
|                                    |             |                                     | 750                      | 0.908                                 | 42.487                                   | 0.894                               | 41.942                                 | 1.57%          | 1.30%            |
|                                    |             |                                     | 770                      | 0.914                                 | 42.424                                   | 0.895                               | 41.838                                 | 2.12%          | 1.40%            |
| 05/20/2020                         | 750 Head    | 21.7                                | 785                      | 0.920                                 | 42.372                                   | 0.896                               | 41.760                                 | 2.68%          | 1.47%            |
|                                    |             |                                     | 800                      | 0.925                                 | 42.322                                   | 0.897                               | 41.682                                 | 3.12%          | 1.54%            |
|                                    |             |                                     | 680                      | 0.851                                 | 41.787                                   | 0.888                               | 42.305                                 | -4.17%         | -1.22%           |
|                                    |             |                                     | 695                      | 0.855                                 | 41.733                                   | 0.889                               | 42.227                                 | -3.82%         | -1.17%           |
|                                    |             |                                     | 700                      | 0.857                                 | 41.715                                   | 0.889                               | 42.201                                 | -3.60%         | -1.15%           |
|                                    |             |                                     | 710                      | 0.861                                 | 41.681                                   | 0.890                               | 42.149                                 | -3.26%         | -1.11%           |
|                                    |             |                                     | 725                      | 0.866                                 | 41.633                                   | 0.891                               | 42.071                                 | -2.81%         | -1.04%           |
|                                    |             |                                     | 750                      | 0.875                                 | 41.554                                   | 0.894                               | 41.942                                 | -2.13%         | -0.93%           |
| 05/06/2020                         | 835 Head    | 20.8                                | 770                      | 0.881                                 | 41.495                                   | 0.895                               | 41.838                                 | -1.56%         | -0.82%           |
|                                    |             |                                     | 785                      | 0.886                                 | 41.447                                   | 0.896                               | 41.760                                 | -1.12%         | -0.75%           |
|                                    |             |                                     | 800                      | 0.891                                 | 41.399                                   | 0.897                               | 41.682                                 | -0.67%         | -0.68%           |
| 05/11/2020                         | 835 Head    | 20.6                                | 820                      | 0.867                                 | 41.992                                   | 0.899                               | 41.578                                 | -3.56%         | 1.00%            |
|                                    |             |                                     | 835                      | 0.873                                 | 41.945                                   | 0.900                               | 41.500                                 | -3.00%         | 1.07%            |
|                                    |             |                                     | 850                      | 0.879                                 | 41.902                                   | 0.916                               | 41.500                                 | -4.04%         | 0.97%            |
| 05/13/2020                         | 835 Head    | 20.9                                | 820                      | 0.880                                 | 40.668                                   | 0.899                               | 41.578                                 | -2.11%         | -2.19%           |
|                                    |             |                                     | 835                      | 0.885                                 | 40.622                                   | 0.900                               | 41.500                                 | -1.67%         | -2.12%           |
|                                    |             |                                     | 850                      | 0.891                                 | 40.576                                   | 0.916                               | 41.500                                 | -2.73%         | -2.23%           |
| 05/13/2020                         | 1750 Head   | 21.0                                | 820                      | 0.900                                 | 41.020                                   | 0.899                               | 41.578                                 | 0.11%          | -1.34%           |
|                                    |             |                                     | 835                      | 0.906                                 | 40.974                                   | 0.900                               | 41.500                                 | 0.67%          | -1.27%           |
|                                    |             |                                     | 850                      | 0.912                                 | 40.931                                   | 0.916                               | 41.500                                 | -0.44%         | -1.37%           |
|                                    |             |                                     | 1710                     | 1.312                                 | 40.663                                   | 1.348                               | 40.142                                 | -2.67%         | 1.30%            |
|                                    |             |                                     | 1720                     | 1.318                                 | 40.656                                   | 1.354                               | 40.126                                 | -2.66%         | 1.32%            |
|                                    |             |                                     | 1745                     | 1.335                                 | 40.627                                   | 1.368                               | 40.087                                 | -2.41%         | 1.35%            |
| 05/13/2020                         | 1750 Head   | 21.0                                | 1750                     | 1.338                                 | 40.620                                   | 1.371                               | 40.079                                 | -2.41%         | 1.35%            |
|                                    |             |                                     | 1770                     | 1.351                                 | 40.589                                   | 1.383                               | 40.047                                 | -2.31%         | 1.35%            |
|                                    |             |                                     | 1790                     | 1.362                                 | 40.552                                   | 1.394                               | 40.016                                 | -2.30%         | 1.34%            |

|                                      |                                                                                                                                         |                               |                                                                                       |                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  PCTEST<br>Proud to be part of the Samsung ecosystem | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                      | DUT Type:<br>Portable Handset |                                                                                       | Page 192 of 305                 |



**Table 10-2**  
**Measured Head Tissue Properties (Cont.)**

| Calibrated for Tests Performed on: | Tissue Type    | Tissue Temp During Calibration (°C) | Measured Frequency (MHz) | Measured Conductivity, $\sigma$ (S/m) | Measured Dielectric Constant, $\epsilon$ | TARGET Conductivity, $\sigma$ (S/m) | TARGET Dielectric Constant, $\epsilon$ | % dev $\sigma$ | % dev $\epsilon$ |
|------------------------------------|----------------|-------------------------------------|--------------------------|---------------------------------------|------------------------------------------|-------------------------------------|----------------------------------------|----------------|------------------|
| 05/11/2020                         | 1900 Head      | 21.0                                | 1850                     | 1.420                                 | 41.014                                   | 1.400                               | 40.000                                 | 1.43%          | 2.54%            |
|                                    |                |                                     | 1860                     | 1.426                                 | 40.998                                   | 1.400                               | 40.000                                 | 1.86%          | 2.49%            |
|                                    |                |                                     | 1880                     | 1.438                                 | 40.978                                   | 1.400                               | 40.000                                 | 2.71%          | 2.45%            |
|                                    |                |                                     | 1900                     | 1.450                                 | 40.959                                   | 1.400                               | 40.000                                 | 3.57%          | 2.40%            |
|                                    |                |                                     | 1905                     | 1.453                                 | 40.952                                   | 1.400                               | 40.000                                 | 3.79%          | 2.38%            |
|                                    |                |                                     | 1910                     | 1.456                                 | 40.945                                   | 1.400                               | 40.000                                 | 4.00%          | 2.36%            |
| 04/29/2020                         | 2450 Head      | 23.3                                | 2300                     | 1.683                                 | 39.993                                   | 1.670                               | 39.500                                 | 0.78%          | 1.25%            |
|                                    |                |                                     | 2310                     | 1.689                                 | 39.976                                   | 1.679                               | 39.480                                 | 0.60%          | 1.26%            |
|                                    |                |                                     | 2320                     | 1.696                                 | 39.961                                   | 1.687                               | 39.460                                 | 0.53%          | 1.27%            |
|                                    |                |                                     | 2400                     | 1.752                                 | 39.856                                   | 1.756                               | 39.289                                 | -0.23%         | 1.44%            |
| 05/03/2020                         | 2450 Head      | 23.2                                | 2400                     | 1.781                                 | 38.465                                   | 1.756                               | 39.289                                 | 0.28%          | -2.10%           |
|                                    |                |                                     | 2450                     | 1.799                                 | 38.404                                   | 1.800                               | 39.200                                 | -0.06%         | -2.03%           |
|                                    |                |                                     | 2480                     | 1.821                                 | 38.364                                   | 1.833                               | 39.162                                 | -0.65%         | -2.04%           |
|                                    |                |                                     | 2500                     | 1.835                                 | 38.328                                   | 1.855                               | 39.136                                 | -1.08%         | -2.06%           |
|                                    |                |                                     | 2510                     | 1.843                                 | 38.311                                   | 1.866                               | 39.123                                 | -1.23%         | -2.08%           |
|                                    |                |                                     | 2535                     | 1.864                                 | 38.272                                   | 1.893                               | 39.092                                 | -1.53%         | -2.10%           |
| 05/24/2020                         | 2450 Head      | 22.0                                | 2400                     | 1.743                                 | 40.164                                   | 1.756                               | 39.289                                 | -0.74%         | 2.23%            |
|                                    |                |                                     | 2450                     | 1.781                                 | 40.093                                   | 1.800                               | 39.200                                 | -1.06%         | 2.28%            |
|                                    |                |                                     | 2480                     | 1.802                                 | 40.049                                   | 1.833                               | 39.162                                 | -1.69%         | 2.26%            |
|                                    |                |                                     | 2500                     | 1.817                                 | 40.011                                   | 1.855                               | 39.136                                 | -2.05%         | 2.24%            |
|                                    |                |                                     | 2510                     | 1.825                                 | 39.994                                   | 1.866                               | 39.123                                 | -2.20%         | 2.23%            |
|                                    |                |                                     | 2535                     | 1.846                                 | 39.954                                   | 1.893                               | 39.092                                 | -2.48%         | 2.21%            |
| 05/27/2020                         | 2450 Head      | 23.5                                | 2550                     | 1.858                                 | 39.935                                   | 1.909                               | 39.073                                 | -2.67%         | 2.21%            |
|                                    |                |                                     | 2400                     | 1.754                                 | 39.596                                   | 1.756                               | 39.289                                 | -0.11%         | 0.78%            |
|                                    |                |                                     | 2450                     | 1.793                                 | 39.534                                   | 1.800                               | 39.200                                 | -0.39%         | 0.85%            |
|                                    |                |                                     | 2480                     | 1.813                                 | 39.486                                   | 1.833                               | 39.162                                 | -1.09%         | 0.83%            |
|                                    |                |                                     | 2500                     | 1.827                                 | 39.446                                   | 1.855                               | 39.136                                 | -1.51%         | 0.79%            |
|                                    |                |                                     | 2400                     | 1.750                                 | 40.729                                   | 1.756                               | 39.289                                 | -0.34%         | 3.67%            |
| 05/31/2020                         | 2450 Head      | 22.5                                | 2450                     | 1.789                                 | 40.669                                   | 1.800                               | 39.200                                 | -0.61%         | 3.75%            |
|                                    |                |                                     | 2480                     | 1.809                                 | 40.631                                   | 1.833                               | 39.162                                 | -1.31%         | 3.75%            |
|                                    |                |                                     | 2500                     | 1.823                                 | 40.592                                   | 1.855                               | 39.136                                 | -1.73%         | 3.72%            |
|                                    |                |                                     | 2510                     | 1.831                                 | 40.577                                   | 1.866                               | 39.123                                 | -1.88%         | 3.72%            |
|                                    |                |                                     | 2535                     | 1.851                                 | 40.546                                   | 1.893                               | 39.092                                 | -2.22%         | 3.72%            |
|                                    |                |                                     | 2550                     | 1.863                                 | 40.535                                   | 1.909                               | 39.073                                 | -2.41%         | 3.74%            |
| 06/01/2020                         | 3600 Head      | 21.8                                | 2560                     | 1.870                                 | 40.527                                   | 1.920                               | 39.060                                 | -2.60%         | 3.76%            |
|                                    |                |                                     | 2600                     | 1.899                                 | 40.473                                   | 1.964                               | 39.009                                 | -3.31%         | 3.75%            |
|                                    |                |                                     | 3500                     | 2.918                                 | 39.665                                   | 2.913                               | 37.929                                 | 0.17%          | 4.58%            |
|                                    |                |                                     | 3550                     | 2.959                                 | 39.592                                   | 2.964                               | 37.871                                 | -0.17%         | 4.54%            |
|                                    |                |                                     | 3560                     | 2.968                                 | 39.577                                   | 2.974                               | 37.860                                 | -0.20%         | 4.54%            |
|                                    |                |                                     | 3600                     | 3.001                                 | 39.523                                   | 3.015                               | 37.814                                 | -0.46%         | 4.52%            |
| 05/28/2020                         | 5200-5800 Head | 21.1                                | 3650                     | 3.042                                 | 39.454                                   | 3.066                               | 37.757                                 | -0.78%         | 4.49%            |
|                                    |                |                                     | 3690                     | 3.076                                 | 39.374                                   | 3.107                               | 37.711                                 | -1.00%         | 4.41%            |
|                                    |                |                                     | 3700                     | 3.084                                 | 39.355                                   | 3.117                               | 37.700                                 | -1.06%         | 4.39%            |
|                                    |                |                                     | 5180                     | 4.590                                 | 35.085                                   | 4.635                               | 36.009                                 | -0.97%         | -2.57%           |
|                                    |                |                                     | 5190                     | 4.599                                 | 35.076                                   | 4.645                               | 35.998                                 | -0.99%         | -2.56%           |
|                                    |                |                                     | 5200                     | 4.609                                 | 35.066                                   | 4.655                               | 35.986                                 | -0.99%         | -2.56%           |
|                                    |                |                                     | 5210                     | 4.620                                 | 35.050                                   | 4.666                               | 35.975                                 | -0.99%         | -2.57%           |
|                                    |                |                                     | 5220                     | 4.630                                 | 35.032                                   | 4.676                               | 35.963                                 | -0.98%         | -2.59%           |
|                                    |                |                                     | 5240                     | 4.653                                 | 34.985                                   | 4.696                               | 35.940                                 | -0.92%         | -2.66%           |
|                                    |                |                                     | 5250                     | 4.667                                 | 34.962                                   | 4.706                               | 35.929                                 | -0.83%         | -2.69%           |
|                                    |                |                                     | 5260                     | 4.679                                 | 34.944                                   | 4.717                               | 35.917                                 | -0.81%         | -2.71%           |
|                                    |                |                                     | 5270                     | 4.690                                 | 34.924                                   | 4.727                               | 35.906                                 | -0.78%         | -2.73%           |
|                                    |                |                                     | 5280                     | 4.698                                 | 34.904                                   | 4.737                               | 35.894                                 | -0.82%         | -2.76%           |
|                                    |                |                                     | 5290                     | 4.709                                 | 34.882                                   | 4.748                               | 35.883                                 | -0.82%         | -2.79%           |
|                                    |                |                                     | 5300                     | 4.720                                 | 34.866                                   | 4.758                               | 35.871                                 | -0.80%         | -2.80%           |
|                                    |                |                                     | 5310                     | 4.729                                 | 34.845                                   | 4.768                               | 35.860                                 | -0.82%         | -2.83%           |
|                                    |                |                                     | 5320                     | 4.739                                 | 34.820                                   | 4.778                               | 35.849                                 | -0.82%         | -2.87%           |
|                                    |                |                                     | 5500                     | 4.937                                 | 34.446                                   | 4.963                               | 35.643                                 | -0.52%         | -3.36%           |
|                                    |                |                                     | 5510                     | 4.949                                 | 34.424                                   | 4.973                               | 35.632                                 | -0.48%         | -3.39%           |
|                                    |                |                                     | 5520                     | 4.962                                 | 34.399                                   | 4.983                               | 35.620                                 | -0.42%         | -3.43%           |
|                                    |                |                                     | 5530                     | 4.974                                 | 34.377                                   | 4.994                               | 35.609                                 | -0.40%         | -3.46%           |
|                                    |                |                                     | 5540                     | 4.987                                 | 34.361                                   | 5.004                               | 35.597                                 | -0.34%         | -3.47%           |
|                                    |                |                                     | 5550                     | 5.001                                 | 34.347                                   | 5.014                               | 35.586                                 | -0.26%         | -3.48%           |
|                                    |                |                                     | 5560                     | 5.013                                 | 34.328                                   | 5.024                               | 35.574                                 | -0.22%         | -3.50%           |
|                                    |                |                                     | 5580                     | 5.035                                 | 34.289                                   | 5.045                               | 35.551                                 | -0.20%         | -3.55%           |
|                                    |                |                                     | 5600                     | 5.063                                 | 34.248                                   | 5.065                               | 35.529                                 | -0.04%         | -3.61%           |
|                                    |                |                                     | 5610                     | 5.076                                 | 34.234                                   | 5.076                               | 35.518                                 | 0.00%          | -3.62%           |
|                                    |                |                                     | 5620                     | 5.088                                 | 34.216                                   | 5.086                               | 35.506                                 | 0.04%          | -3.63%           |
|                                    |                |                                     | 5640                     | 5.111                                 | 34.185                                   | 5.106                               | 35.483                                 | 0.10%          | -3.66%           |
|                                    |                |                                     | 5660                     | 5.135                                 | 34.164                                   | 5.127                               | 35.460                                 | 0.16%          | -3.65%           |
|                                    |                |                                     | 5670                     | 5.144                                 | 34.145                                   | 5.137                               | 35.449                                 | 0.14%          | -3.68%           |
|                                    |                |                                     | 5680                     | 5.155                                 | 34.123                                   | 5.147                               | 35.437                                 | 0.16%          | -3.71%           |
|                                    |                |                                     | 5690                     | 5.169                                 | 34.103                                   | 5.158                               | 35.426                                 | 0.21%          | -3.73%           |
|                                    |                |                                     | 5700                     | 5.186                                 | 34.085                                   | 5.168                               | 35.414                                 | 0.35%          | -3.75%           |
|                                    |                |                                     | 5710                     | 5.199                                 | 34.072                                   | 5.178                               | 35.403                                 | 0.41%          | -3.76%           |
|                                    |                |                                     | 5720                     | 5.210                                 | 34.060                                   | 5.188                               | 35.391                                 | 0.42%          | -3.76%           |
|                                    |                |                                     | 5745                     | 5.236                                 | 34.032                                   | 5.214                               | 35.363                                 | 0.42%          | -3.76%           |
|                                    |                |                                     | 5750                     | 5.240                                 | 34.024                                   | 5.219                               | 35.357                                 | 0.40%          | -3.77%           |
|                                    |                |                                     | 5755                     | 5.244                                 | 34.015                                   | 5.224                               | 35.351                                 | 0.38%          | -3.78%           |
|                                    |                |                                     | 5765                     | 5.255                                 | 33.997                                   | 5.234                               | 35.340                                 | 0.40%          | -3.80%           |
|                                    |                |                                     | 5775                     | 5.267                                 | 33.975                                   | 5.245                               | 35.329                                 | 0.42%          | -3.83%           |
|                                    |                |                                     | 5785                     | 5.280                                 | 33.953                                   | 5.255                               | 35.317                                 | 0.48%          | -3.86%           |
|                                    |                |                                     | 5795                     | 5.294                                 | 33.935                                   | 5.265                               | 35.305                                 | 0.55%          | -3.88%           |
|                                    |                |                                     | 5800                     | 5.300                                 | 33.927                                   | 5.270                               | 35.300                                 | 0.57%          | -3.89%           |
|                                    |                |                                     | 5805                     | 5.306                                 | 33.919                                   | 5.275                               | 35.294                                 | 0.59%          | -3.90%           |
|                                    |                |                                     | 5825                     | 5.330                                 | 33.900                                   | 5.296                               | 35.271                                 | 0.64%          | -3.89%           |

|                                             |                                                                                                                               |                                      |                                                                                       |                                        |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  PCTEST<br>Proud to be part of the element | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                     | <b>DUT Type:</b><br>Portable Handset | Page 193 of 305                                                                       |                                        |

**Table 10-3**  
**Measured Body Tissue Properties**

| Calibrated for Tests Performed on: | Tissue Type | Tissue Temp During Calibration (°C) | Measured Frequency (MHz) | Measured Conductivity, $\sigma$ (S/m) | Measured Dielectric Constant, $\epsilon$ | TARGET Conductivity, $\sigma$ (S/m) | TARGET Dielectric Constant, $\epsilon$ | % dev $\sigma$ | % dev $\epsilon$ |
|------------------------------------|-------------|-------------------------------------|--------------------------|---------------------------------------|------------------------------------------|-------------------------------------|----------------------------------------|----------------|------------------|
| 04/22/2020                         | 750 Body    | 20.5                                | 680                      | 0.941                                 | 53.655                                   | 0.958                               | 55.804                                 | -1.77%         | -3.85%           |
|                                    |             |                                     | 695                      | 0.946                                 | 53.611                                   | 0.959                               | 55.745                                 | -1.36%         | -3.83%           |
|                                    |             |                                     | 700                      | 0.948                                 | 53.597                                   | 0.959                               | 55.726                                 | -1.15%         | -3.82%           |
|                                    |             |                                     | 710                      | 0.952                                 | 53.569                                   | 0.960                               | 55.687                                 | -0.83%         | -3.80%           |
|                                    |             |                                     | 725                      | 0.957                                 | 53.526                                   | 0.961                               | 55.629                                 | -0.42%         | -3.78%           |
|                                    |             |                                     | 750                      | 0.967                                 | 53.449                                   | 0.964                               | 55.531                                 | 0.31%          | -3.75%           |
|                                    |             |                                     | 770                      | 0.975                                 | 53.394                                   | 0.965                               | 55.453                                 | 1.04%          | -3.71%           |
|                                    |             |                                     | 785                      | 0.980                                 | 53.352                                   | 0.966                               | 55.395                                 | 1.45%          | -3.69%           |
|                                    |             |                                     | 800                      | 0.985                                 | 53.316                                   | 0.967                               | 55.336                                 | 1.86%          | -3.65%           |
|                                    |             |                                     | 680                      | 0.931                                 | 53.768                                   | 0.958                               | 55.804                                 | -2.82%         | -3.65%           |
| 04/27/2020                         | 750 Body    | 20.3                                | 695                      | 0.936                                 | 53.737                                   | 0.959                               | 55.745                                 | -2.40%         | -3.60%           |
|                                    |             |                                     | 700                      | 0.938                                 | 53.728                                   | 0.959                               | 55.726                                 | -2.19%         | -3.59%           |
|                                    |             |                                     | 710                      | 0.942                                 | 53.705                                   | 0.960                               | 55.687                                 | -1.88%         | -3.56%           |
|                                    |             |                                     | 725                      | 0.948                                 | 53.665                                   | 0.961                               | 55.629                                 | -1.35%         | -3.53%           |
|                                    |             |                                     | 750                      | 0.957                                 | 53.587                                   | 0.964                               | 55.531                                 | -0.73%         | -3.50%           |
|                                    |             |                                     | 770                      | 0.964                                 | 53.534                                   | 0.965                               | 55.453                                 | -0.10%         | -3.46%           |
|                                    |             |                                     | 785                      | 0.970                                 | 53.502                                   | 0.966                               | 55.395                                 | 0.41%          | -3.42%           |
|                                    |             |                                     | 800                      | 0.976                                 | 53.468                                   | 0.967                               | 55.336                                 | 0.93%          | -3.38%           |
|                                    |             |                                     | 820                      | 0.929                                 | 53.582                                   | 0.969                               | 55.258                                 | -4.13%         | -3.03%           |
|                                    |             |                                     | 835                      | 0.944                                 | 53.429                                   | 0.970                               | 55.200                                 | -2.68%         | -3.21%           |
| 05/06/2020                         | 835 Body    | 21.0                                | 850                      | 0.960                                 | 53.280                                   | 0.988                               | 55.154                                 | -2.83%         | -3.40%           |
| 05/08/2020                         | 835 Body    | 21.2                                | 820                      | 0.932                                 | 52.922                                   | 0.969                               | 55.258                                 | -3.82%         | -4.23%           |
|                                    |             |                                     | 835                      | 0.948                                 | 52.764                                   | 0.970                               | 55.200                                 | -2.27%         | -4.41%           |
|                                    |             |                                     | 850                      | 0.965                                 | 52.616                                   | 0.988                               | 55.154                                 | -2.33%         | -4.60%           |
| 05/11/2020                         | 835 Body    | 21.6                                | 820                      | 0.949                                 | 53.217                                   | 0.969                               | 55.258                                 | -2.06%         | -3.69%           |
|                                    |             |                                     | 835                      | 0.965                                 | 53.068                                   | 0.970                               | 55.200                                 | -0.52%         | -3.86%           |
|                                    |             |                                     | 850                      | 0.981                                 | 52.914                                   | 0.988                               | 55.154                                 | -0.71%         | -4.06%           |
| 05/13/2020                         | 835 Body    | 21.8                                | 820                      | 0.945                                 | 54.645                                   | 0.969                               | 55.258                                 | -2.48%         | -1.11%           |
|                                    |             |                                     | 835                      | 0.961                                 | 54.496                                   | 0.970                               | 55.200                                 | -0.93%         | -1.28%           |
|                                    |             |                                     | 850                      | 0.976                                 | 54.344                                   | 0.988                               | 55.154                                 | -1.21%         | -1.47%           |
| 05/18/2020                         | 835 Body    | 21.2                                | 820                      | 0.944                                 | 54.277                                   | 0.969                               | 55.258                                 | -2.58%         | -1.78%           |
|                                    |             |                                     | 835                      | 0.960                                 | 54.120                                   | 0.970                               | 55.200                                 | -1.03%         | -1.96%           |
|                                    |             |                                     | 850                      | 0.975                                 | 53.965                                   | 0.988                               | 55.154                                 | -1.32%         | -2.16%           |
| 04/29/2020                         | 1750 Body   | 22.2                                | 1710                     | 1.487                                 | 52.019                                   | 1.463                               | 53.537                                 | 1.64%          | -2.84%           |
|                                    |             |                                     | 1720                     | 1.498                                 | 51.988                                   | 1.469                               | 53.511                                 | 1.97%          | -2.85%           |
|                                    |             |                                     | 1745                     | 1.526                                 | 51.885                                   | 1.485                               | 53.445                                 | 2.76%          | -2.92%           |
|                                    |             |                                     | 1750                     | 1.532                                 | 51.860                                   | 1.488                               | 53.432                                 | 2.96%          | -2.94%           |
|                                    |             |                                     | 1770                     | 1.554                                 | 51.756                                   | 1.501                               | 53.379                                 | 3.53%          | -3.04%           |
|                                    |             |                                     | 1790                     | 1.575                                 | 51.661                                   | 1.514                               | 53.326                                 | 4.03%          | -3.12%           |
| 05/03/2020                         | 1750 Body   | 21.2                                | 1710                     | 1.478                                 | 52.241                                   | 1.463                               | 53.537                                 | 1.03%          | -2.42%           |
|                                    |             |                                     | 1720                     | 1.489                                 | 52.200                                   | 1.469                               | 53.511                                 | 1.36%          | -2.45%           |
|                                    |             |                                     | 1745                     | 1.518                                 | 52.107                                   | 1.485                               | 53.445                                 | 2.22%          | -2.50%           |
|                                    |             |                                     | 1750                     | 1.523                                 | 52.088                                   | 1.488                               | 53.432                                 | 2.35%          | -2.52%           |
|                                    |             |                                     | 1770                     | 1.544                                 | 52.014                                   | 1.501                               | 53.379                                 | 2.86%          | -2.56%           |
|                                    |             |                                     | 1790                     | 1.566                                 | 51.939                                   | 1.514                               | 53.326                                 | 3.43%          | -2.60%           |
| 05/06/2020                         | 1750 Body   | 21.9                                | 1710                     | 1.452                                 | 52.786                                   | 1.463                               | 53.537                                 | -0.75%         | -1.40%           |
|                                    |             |                                     | 1720                     | 1.464                                 | 52.746                                   | 1.469                               | 53.511                                 | -0.34%         | -1.43%           |
|                                    |             |                                     | 1745                     | 1.492                                 | 52.646                                   | 1.485                               | 53.445                                 | 0.47%          | -1.49%           |
|                                    |             |                                     | 1750                     | 1.498                                 | 52.627                                   | 1.488                               | 53.432                                 | 0.67%          | -1.51%           |
|                                    |             |                                     | 1770                     | 1.519                                 | 52.547                                   | 1.501                               | 53.379                                 | 1.20%          | -1.56%           |
|                                    |             |                                     | 1790                     | 1.539                                 | 52.468                                   | 1.514                               | 53.326                                 | 1.65%          | -1.61%           |
| 05/14/2020                         | 1750 Body   | 21.6                                | 1710                     | 1.466                                 | 53.267                                   | 1.463                               | 53.537                                 | 0.21%          | -0.50%           |
|                                    |             |                                     | 1720                     | 1.478                                 | 53.229                                   | 1.469                               | 53.511                                 | 0.61%          | -0.53%           |
|                                    |             |                                     | 1745                     | 1.507                                 | 53.133                                   | 1.485                               | 53.445                                 | 1.48%          | -0.58%           |
|                                    |             |                                     | 1750                     | 1.513                                 | 53.115                                   | 1.488                               | 53.432                                 | 1.68%          | -0.59%           |
|                                    |             |                                     | 1770                     | 1.534                                 | 53.037                                   | 1.501                               | 53.379                                 | 2.20%          | -0.64%           |
|                                    |             |                                     | 1790                     | 1.556                                 | 52.958                                   | 1.514                               | 53.326                                 | 2.77%          | -0.69%           |
| 05/20/2020                         | 1750 Body   | 20.6                                | 1710                     | 1.498                                 | 52.540                                   | 1.463                               | 53.537                                 | 2.39%          | -1.86%           |
|                                    |             |                                     | 1720                     | 1.510                                 | 52.504                                   | 1.469                               | 53.511                                 | 2.79%          | -1.88%           |
|                                    |             |                                     | 1745                     | 1.538                                 | 52.409                                   | 1.485                               | 53.445                                 | 3.57%          | -1.94%           |
|                                    |             |                                     | 1750                     | 1.544                                 | 52.389                                   | 1.488                               | 53.432                                 | 3.76%          | -1.95%           |
|                                    |             |                                     | 1770                     | 1.565                                 | 52.305                                   | 1.501                               | 53.379                                 | 4.26%          | -2.01%           |
|                                    |             |                                     | 1790                     | 1.587                                 | 52.217                                   | 1.514                               | 53.326                                 | 4.82%          | -2.08%           |
| 05/29/2020                         | 1750 Body   | 21.8                                | 1710                     | 1.466                                 | 52.637                                   | 1.463                               | 53.537                                 | 0.21%          | -1.68%           |
|                                    |             |                                     | 1720                     | 1.477                                 | 52.609                                   | 1.469                               | 53.511                                 | 0.54%          | -1.69%           |
|                                    |             |                                     | 1745                     | 1.507                                 | 52.539                                   | 1.485                               | 53.445                                 | 1.48%          | -1.70%           |
|                                    |             |                                     | 1750                     | 1.513                                 | 52.524                                   | 1.488                               | 53.432                                 | 1.68%          | -1.70%           |
|                                    |             |                                     | 1770                     | 1.536                                 | 52.458                                   | 1.501                               | 53.379                                 | 2.33%          | -1.73%           |
|                                    |             |                                     | 1790                     | 1.559                                 | 52.376                                   | 1.514                               | 53.326                                 | 2.97%          | -1.78%           |
| 06/01/2020                         | 1750 Body   | 21.1                                | 1710                     | 1.499                                 | 53.159                                   | 1.463                               | 53.537                                 | 2.46%          | -0.71%           |
|                                    |             |                                     | 1720                     | 1.512                                 | 53.118                                   | 1.469                               | 53.511                                 | 2.93%          | -0.73%           |
|                                    |             |                                     | 1745                     | 1.541                                 | 53.029                                   | 1.485                               | 53.445                                 | 3.77%          | -0.78%           |
|                                    |             |                                     | 1750                     | 1.546                                 | 53.012                                   | 1.488                               | 53.432                                 | 3.90%          | -0.79%           |
|                                    |             |                                     | 1770                     | 1.565                                 | 52.938                                   | 1.501                               | 53.379                                 | 4.26%          | -0.83%           |
|                                    |             |                                     | 1790                     | 1.584                                 | 52.850                                   | 1.514                               | 53.326                                 | 4.62%          | -0.89%           |
| 05/03/2020                         | 1900 Body   | 22.8                                | 1850                     | 1.515                                 | 55.342                                   | 1.520                               | 53.300                                 | -0.33%         | 3.83%            |
|                                    |             |                                     | 1860                     | 1.527                                 | 55.303                                   | 1.520                               | 53.300                                 | 0.46%          | 3.76%            |
|                                    |             |                                     | 1880                     | 1.550                                 | 55.235                                   | 1.520                               | 53.300                                 | 1.97%          | 3.63%            |
|                                    |             |                                     | 1900                     | 1.573                                 | 55.175                                   | 1.520                               | 53.300                                 | 3.49%          | 3.52%            |
|                                    |             |                                     | 1905                     | 1.578                                 | 55.160                                   | 1.520                               | 53.300                                 | 3.82%          | 3.49%            |
|                                    |             |                                     | 1910                     | 1.584                                 | 55.145                                   | 1.520                               | 53.300                                 | 4.21%          | 3.46%            |

|                                      |                                                                                                                                                    |                               |                                                                                       |                                 |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of ROHM Group</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                 | DUT Type:<br>Portable Handset |                                                                                       | Page 194 of 305                 |

**Table 10-4**  
**Measured Body Tissue Properties (Cont.)**

| Calibrated for Tests Performed on: | Tissue Type | Tissue Temp During Calibration (°C) | Measured Frequency (MHz) | Measured Conductivity, $\sigma$ (S/m) | Measured Dielectric Constant, $\epsilon$ | TARGET Conductivity, $\sigma$ (S/m) | TARGET Dielectric Constant, $\epsilon$ | % dev $\sigma$ | % dev $\epsilon$ |
|------------------------------------|-------------|-------------------------------------|--------------------------|---------------------------------------|------------------------------------------|-------------------------------------|----------------------------------------|----------------|------------------|
| 05/06/2020                         | 1900 Body   | 22.5                                | 1850                     | 1.520                                 | 52.876                                   | 1.520                               | 53.300                                 | 0.00%          | -0.80%           |
|                                    |             |                                     | 1860                     | 1.531                                 | 52.846                                   | 1.520                               | 53.300                                 | 0.72%          | -0.85%           |
|                                    |             |                                     | 1880                     | 1.554                                 | 52.782                                   | 1.520                               | 53.300                                 | 2.24%          | -0.97%           |
|                                    |             |                                     | 1900                     | 1.578                                 | 52.713                                   | 1.520                               | 53.300                                 | 3.82%          | -1.10%           |
|                                    |             |                                     | 1905                     | 1.584                                 | 52.694                                   | 1.520                               | 53.300                                 | 4.21%          | -1.14%           |
|                                    |             |                                     | 1910                     | 1.590                                 | 52.675                                   | 1.520                               | 53.300                                 | 4.61%          | -1.17%           |
|                                    |             |                                     | 1850                     | 1.494                                 | 53.414                                   | 1.520                               | 53.300                                 | -1.71%         | 0.21%            |
| 05/10/2020                         | 1900 Body   | 22.0                                | 1860                     | 1.504                                 | 53.387                                   | 1.520                               | 53.300                                 | -1.05%         | 0.16%            |
|                                    |             |                                     | 1880                     | 1.526                                 | 53.339                                   | 1.520                               | 53.300                                 | 0.39%          | 0.07%            |
|                                    |             |                                     | 1900                     | 1.548                                 | 53.291                                   | 1.520                               | 53.300                                 | 1.84%          | -0.02%           |
|                                    |             |                                     | 1905                     | 1.554                                 | 53.279                                   | 1.520                               | 53.300                                 | 2.24%          | -0.04%           |
|                                    |             |                                     | 1910                     | 1.560                                 | 53.267                                   | 1.520                               | 53.300                                 | 2.63%          | -0.06%           |
|                                    |             |                                     | 1850                     | 1.509                                 | 52.828                                   | 1.520                               | 53.300                                 | -0.72%         | -0.89%           |
|                                    |             |                                     | 1860                     | 1.521                                 | 52.792                                   | 1.520                               | 53.300                                 | 0.07%          | -0.95%           |
| 05/12/2020                         | 1900 Body   | 22.3                                | 1880                     | 1.545                                 | 52.726                                   | 1.520                               | 53.300                                 | 1.64%          | -1.08%           |
|                                    |             |                                     | 1900                     | 1.568                                 | 52.646                                   | 1.520                               | 53.300                                 | 3.16%          | -1.23%           |
|                                    |             |                                     | 1905                     | 1.574                                 | 52.627                                   | 1.520                               | 53.300                                 | 3.55%          | -1.26%           |
|                                    |             |                                     | 1910                     | 1.579                                 | 52.606                                   | 1.520                               | 53.300                                 | 3.88%          | -1.30%           |
|                                    |             |                                     | 1850                     | 1.491                                 | 54.756                                   | 1.520                               | 53.300                                 | -1.91%         | 2.73%            |
|                                    |             |                                     | 1860                     | 1.501                                 | 54.732                                   | 1.520                               | 53.300                                 | -1.25%         | 2.69%            |
|                                    |             |                                     | 1880                     | 1.523                                 | 54.679                                   | 1.520                               | 53.300                                 | 0.20%          | 2.59%            |
| 5/17/2020                          | 1900 Body   | 24.0                                | 1900                     | 1.545                                 | 54.617                                   | 1.520                               | 53.300                                 | 1.64%          | 2.47%            |
|                                    |             |                                     | 1905                     | 1.550                                 | 54.600                                   | 1.520                               | 53.300                                 | 1.97%          | 2.44%            |
|                                    |             |                                     | 1910                     | 1.556                                 | 54.583                                   | 1.520                               | 53.300                                 | 2.37%          | 2.41%            |
|                                    |             |                                     | 1850                     | 1.518                                 | 54.223                                   | 1.520                               | 53.300                                 | -0.13%         | 1.73%            |
|                                    |             |                                     | 1860                     | 1.530                                 | 54.195                                   | 1.520                               | 53.300                                 | 0.66%          | 1.68%            |
|                                    |             |                                     | 1880                     | 1.553                                 | 54.129                                   | 1.520                               | 53.300                                 | 2.17%          | 1.56%            |
|                                    |             |                                     | 1900                     | 1.577                                 | 54.055                                   | 1.520                               | 53.300                                 | 3.75%          | 1.42%            |
| 05/20/2020                         | 1900 Body   | 24.0                                | 1905                     | 1.583                                 | 54.036                                   | 1.520                               | 53.300                                 | 4.14%          | 1.38%            |
|                                    |             |                                     | 1910                     | 1.588                                 | 54.018                                   | 1.520                               | 53.300                                 | 4.47%          | 1.25%            |
|                                    |             |                                     | 1850                     | 1.489                                 | 53.867                                   | 1.520                               | 53.300                                 | -2.04%         | 0.89%            |
|                                    |             |                                     | 1860                     | 1.500                                 | 53.844                                   | 1.520                               | 53.300                                 | -1.32%         | 0.85%            |
|                                    |             |                                     | 1880                     | 1.522                                 | 53.802                                   | 1.520                               | 53.300                                 | 0.13%          | 0.57%            |
|                                    |             |                                     | 1900                     | 1.544                                 | 53.552                                   | 1.520                               | 53.300                                 | 1.58%          | 0.47%            |
|                                    |             |                                     | 1905                     | 1.549                                 | 53.538                                   | 1.520                               | 53.300                                 | 1.91%          | 0.45%            |
| 05/23/2020                         | 1900 Body   | 23.8                                | 1910                     | 1.555                                 | 53.524                                   | 1.520                               | 53.300                                 | 2.30%          | 0.42%            |
|                                    |             |                                     | 1850                     | 1.502                                 | 53.157                                   | 1.520                               | 53.300                                 | -1.18%         | -0.27%           |
|                                    |             |                                     | 1860                     | 1.513                                 | 53.133                                   | 1.520                               | 53.300                                 | -0.46%         | -0.31%           |
|                                    |             |                                     | 1880                     | 1.536                                 | 53.097                                   | 1.520                               | 53.300                                 | 1.05%          | -0.38%           |
|                                    |             |                                     | 1900                     | 1.558                                 | 53.035                                   | 1.520                               | 53.300                                 | 2.50%          | -0.50%           |
|                                    |             |                                     | 1905                     | 1.565                                 | 52.998                                   | 1.520                               | 53.300                                 | 2.86%          | -0.57%           |
|                                    |             |                                     | 1910                     | 1.571                                 | 52.986                                   | 1.520                               | 53.300                                 | 3.36%          | -0.57%           |
| 05/26/2020                         | 1900 Body   | 24.7                                | 2300                     | 1.846                                 | 53.120                                   | 1.809                               | 52.900                                 | 2.05%          | 0.42%            |
|                                    |             |                                     | 2310                     | 1.857                                 | 53.097                                   | 1.816                               | 52.887                                 | 2.26%          | 0.40%            |
|                                    |             |                                     | 2320                     | 1.869                                 | 53.073                                   | 1.826                               | 52.873                                 | 2.35%          | 0.38%            |
|                                    |             |                                     | 2400                     | 1.960                                 | 52.861                                   | 1.902                               | 52.767                                 | 3.05%          | 0.18%            |
|                                    |             |                                     | 2400                     | 1.987                                 | 51.744                                   | 1.902                               | 52.767                                 | 4.47%          | -1.94%           |
|                                    |             |                                     | 2450                     | 2.047                                 | 51.610                                   | 1.950                               | 52.700                                 | 4.97%          | -2.07%           |
|                                    |             |                                     | 2480                     | 2.081                                 | 51.517                                   | 1.993                               | 52.662                                 | 4.42%          | -2.17%           |
| 05/29/2020                         | 2450 Body   | 21.4                                | 2500                     | 2.105                                 | 51.453                                   | 2.021                               | 52.636                                 | 4.16%          | -2.25%           |
|                                    |             |                                     | 2510                     | 2.118                                 | 51.421                                   | 2.035                               | 52.623                                 | 4.08%          | -2.38%           |
|                                    |             |                                     | 2535                     | 2.149                                 | 51.345                                   | 2.071                               | 52.592                                 | 3.77%          | -2.37%           |
|                                    |             |                                     | 2400                     | 1.954                                 | 52.787                                   | 1.902                               | 52.767                                 | 2.73%          | 0.04%            |
|                                    |             |                                     | 2450                     | 2.011                                 | 52.642                                   | 1.950                               | 52.700                                 | 3.13%          | -0.11%           |
|                                    |             |                                     | 2480                     | 2.045                                 | 52.558                                   | 1.993                               | 52.662                                 | 2.61%          | -0.20%           |
|                                    |             |                                     | 2500                     | 2.069                                 | 52.497                                   | 2.021                               | 52.636                                 | 2.38%          | -0.26%           |
| 05/18/2020                         | 2450 Body   | 23.2                                | 2400                     | 1.973                                 | 51.175                                   | 1.902                               | 52.767                                 | 3.73%          | -3.02%           |
|                                    |             |                                     | 2450                     | 2.033                                 | 51.036                                   | 1.950                               | 52.700                                 | 4.26%          | -3.16%           |
|                                    |             |                                     | 2480                     | 2.067                                 | 50.947                                   | 1.993                               | 52.662                                 | 3.71%          | -3.26%           |
|                                    |             |                                     | 2500                     | 2.091                                 | 50.879                                   | 2.021                               | 52.636                                 | 3.46%          | -3.34%           |
|                                    |             |                                     | 2510                     | 2.103                                 | 50.845                                   | 2.035                               | 52.623                                 | 3.34%          | -3.38%           |
|                                    |             |                                     | 2535                     | 2.134                                 | 50.773                                   | 2.071                               | 52.592                                 | 3.04%          | -3.46%           |
|                                    |             |                                     | 2550                     | 2.152                                 | 50.735                                   | 2.092                               | 52.573                                 | 2.87%          | -3.50%           |
| 05/20/2020                         | 2450 Body   | 23.5                                | 2560                     | 2.164                                 | 50.711                                   | 2.106                               | 52.560                                 | 2.75%          | -3.52%           |
|                                    |             |                                     | 2600                     | 2.211                                 | 50.595                                   | 2.163                               | 52.509                                 | 2.22%          | -3.65%           |
|                                    |             |                                     | 2650                     | 2.274                                 | 50.421                                   | 2.234                               | 52.445                                 | 1.79%          | -3.86%           |
|                                    |             |                                     | 2680                     | 2.310                                 | 50.330                                   | 2.277                               | 52.407                                 | 1.45%          | -3.96%           |
|                                    |             |                                     | 2700                     | 2.333                                 | 50.267                                   | 2.305                               | 52.382                                 | 1.21%          | -4.04%           |
|                                    |             |                                     | 2400                     | 1.988                                 | 50.938                                   | 1.902                               | 52.767                                 | 4.42%          | -3.47%           |
|                                    |             |                                     | 2450                     | 2.045                                 | 50.783                                   | 1.950                               | 52.700                                 | 4.87%          | -3.64%           |
| 05/27/2020                         | 2450 Body   | 21.8                                | 2480                     | 2.079                                 | 50.688                                   | 1.993                               | 52.662                                 | 4.32%          | -3.75%           |
|                                    |             |                                     | 2500                     | 2.103                                 | 50.620                                   | 2.021                               | 52.636                                 | 4.06%          | -3.83%           |
|                                    |             |                                     | 2510                     | 2.115                                 | 50.588                                   | 2.035                               | 52.623                                 | 3.93%          | -3.87%           |
|                                    |             |                                     | 2535                     | 2.144                                 | 50.510                                   | 2.071                               | 52.592                                 | 3.52%          | -3.96%           |
|                                    |             |                                     | 2550                     | 2.162                                 | 50.468                                   | 2.092                               | 52.573                                 | 3.35%          | -4.00%           |
|                                    |             |                                     | 2560                     | 2.174                                 | 50.443                                   | 2.106                               | 52.560                                 | 3.23%          | -4.03%           |
|                                    |             |                                     | 2600                     | 2.220                                 | 50.325                                   | 2.163                               | 52.509                                 | 2.64%          | -4.16%           |
| 06/01/2020                         | 2450 Body   | 23.1                                | 2650                     | 2.280                                 | 50.155                                   | 2.234                               | 52.445                                 | 2.06%          | -4.37%           |
|                                    |             |                                     | 2680                     | 2.317                                 | 50.069                                   | 2.277                               | 52.407                                 | 1.76%          | -4.46%           |
|                                    |             |                                     | 2700                     | 2.341                                 | 50.014                                   | 2.305                               | 52.382                                 | 1.56%          | -4.52%           |
|                                    |             |                                     | 2400                     | 1.976                                 | 52.738                                   | 1.902                               | 52.767                                 | 3.89%          | -0.05%           |
|                                    |             |                                     | 2450                     | 2.031                                 | 52.584                                   | 1.950                               | 52.700                                 | 4.15%          | -0.22%           |
|                                    |             |                                     | 2480                     | 2.068                                 | 52.487                                   | 1.993                               | 52.662                                 | 3.76%          | -0.33%           |
|                                    |             |                                     | 2500                     | 2.091                                 | 52.435                                   | 2.021                               | 52.636                                 | 3.46%          | -0.38%           |
| 06/07/2020                         | 2450 Body   | 23.6                                | 2510                     | 2.103                                 | 52.408                                   | 2.035                               | 52.623                                 | 3.34%          | -0.41%           |
|                                    |             |                                     | 2535                     | 2.131                                 | 52.330                                   | 2.071                               | 52.592                                 | 2.90%          | -0.50%           |
|                                    |             |                                     | 2550                     | 2.149                                 | 52.277                                   | 2.092                               | 52.573                                 | 2.72%          | -0.56%           |
|                                    |             |                                     | 2560                     | 2.162                                 | 52.242                                   | 2.106                               | 52.560                                 | 2.66%          | -0.61%           |
|                                    |             |                                     | 2600                     | 2.211                                 | 52.130                                   | 2.163                               | 52.509                                 | 2.22%          | -0.72%           |
|                                    |             |                                     | 2650                     | 2.270                                 | 51.989                                   | 2.234                               | 52.445                                 | 1.61%          | -0.89%           |
|                                    |             |                                     | 2680                     | 2.308                                 | 51.881                                   | 2.277                               | 52.407                                 | 1.38%          | -1.00%           |
| 06/03/2020                         | 3600 Body   | 21.9                                | 2700                     | 2.332                                 | 51.824                                   | 2.305                               | 52.382                                 | 1.17%          | -1.07%           |
|                                    |             |                                     | 2300                     | 1.873                                 | 53.083                                   | 1.809                               | 52.900                                 | 3.54%          | 0.35%            |
|                                    |             |                                     | 2310                     | 1.884                                 | 53.055                                   | 1.816                               | 52.887                                 | 3.74%          | 0.32%            |
|                                    |             |                                     | 2320                     | 1.896                                 | 53.028                                   | 1.826                               | 52.873                                 | 3.83%          | 0.29%            |
|                                    |             |                                     | 2400                     | 1.988                                 | 52.800                                   | 1.902                               | 52.767                                 | 4.42%          | 0.06%            |
|                                    |             |                                     | 3500                     | 3.300                                 | 49.586                                   | 3.314                               | 51.321                                 | 2.29%          | -3.42%           |
|                                    |             |                                     | 3550                     | 3.441                                 | 49.503                                   | 3.372                               | 51.254                                 | 2.05%          | -3.42%           |
| 06/03/2020                         | 3600 Body   | 21.9                                | 3560                     | 3.455                                 | 49.509                                   | 3.384                               | 51.240                                 | 2.10%          | -3.38%           |
|                                    |             |                                     | 3600                     | 3.492                                 | 49.447                                   | 3.431                               | 51.186                                 | 1.78%          | -3.40%           |
|                                    |             |                                     | 3650                     | 3.552                                 | 49.347                                   | 3.489                               | 51.118                                 | 1.61%          | -3.46%           |
|                                    |             |                                     | 3690                     | 3.587                                 | 49.254                                   | 3.536                               | 51.063                                 | 1.44%          | -3.54%           |
|                                    |             |                                     | 3700                     | 3.603                                 | 49.250                                   | 3.548                               | 51.050                                 | 1.55%          | -3.53%           |

|                                      |                                                                                                                                                                                                                             |                               |                                                                                       |                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of</small>  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                          | DUT Type:<br>Portable Handset | Page 195 of 305                                                                       |                                 |

**Table 10-5  
Measured Body Tissue Properties (Cont.)**

| Calibrated for Tests Performed on: | Tissue Type    | Tissue Temp During Calibration (°C) | Measured Frequency (MHz) | Measured Conductivity, $\sigma$ (S/m) | Measured Dielectric Constant, $\epsilon$ | TARGET Conductivity, $\sigma$ (S/m) | TARGET Dielectric Constant, $\epsilon$ | % dev $\sigma$ | % dev $\epsilon$ |
|------------------------------------|----------------|-------------------------------------|--------------------------|---------------------------------------|------------------------------------------|-------------------------------------|----------------------------------------|----------------|------------------|
| 05/24/2020                         | 5200-5800 Body | 21.3                                | 5180                     | 5.431                                 | 46.958                                   | 5.276                               | 49.041                                 | 2.94%          | -4.25%           |
|                                    |                |                                     | 5190                     | 5.440                                 | 46.955                                   | 5.288                               | 49.028                                 | 2.87%          | -4.23%           |
|                                    |                |                                     | 5200                     | 5.450                                 | 46.941                                   | 5.299                               | 49.014                                 | 2.85%          | -4.23%           |
|                                    |                |                                     | 5210                     | 5.463                                 | 46.918                                   | 5.311                               | 49.001                                 | 2.86%          | -4.25%           |
|                                    |                |                                     | 5220                     | 5.475                                 | 46.901                                   | 5.323                               | 48.987                                 | 2.86%          | -4.26%           |
|                                    |                |                                     | 5240                     | 5.505                                 | 46.858                                   | 5.346                               | 48.960                                 | 2.97%          | -4.29%           |
|                                    |                |                                     | 5250                     | 5.522                                 | 46.842                                   | 5.358                               | 48.947                                 | 3.06%          | -4.30%           |
|                                    |                |                                     | 5260                     | 5.536                                 | 46.819                                   | 5.369                               | 48.933                                 | 3.11%          | -4.32%           |
|                                    |                |                                     | 5270                     | 5.550                                 | 46.805                                   | 5.381                               | 48.919                                 | 3.14%          | -4.32%           |
|                                    |                |                                     | 5280                     | 5.565                                 | 46.788                                   | 5.393                               | 48.906                                 | 3.19%          | -4.33%           |
|                                    |                |                                     | 5290                     | 5.578                                 | 46.775                                   | 5.404                               | 48.892                                 | 3.22%          | -4.33%           |
|                                    |                |                                     | 5300                     | 5.589                                 | 46.775                                   | 5.416                               | 48.879                                 | 3.19%          | -4.30%           |
|                                    |                |                                     | 5310                     | 5.600                                 | 46.763                                   | 5.428                               | 48.865                                 | 3.17%          | -4.30%           |
|                                    |                |                                     | 5320                     | 5.612                                 | 46.744                                   | 5.439                               | 48.851                                 | 3.15%          | -4.31%           |
|                                    |                |                                     | 5500                     | 5.851                                 | 46.428                                   | 5.650                               | 48.607                                 | 3.55%          | -4.48%           |
|                                    |                |                                     | 5510                     | 5.869                                 | 46.416                                   | 5.661                               | 48.594                                 | 3.67%          | -4.48%           |
|                                    |                |                                     | 5520                     | 5.885                                 | 46.402                                   | 5.673                               | 48.580                                 | 3.74%          | -4.48%           |
|                                    |                |                                     | 5530                     | 5.897                                 | 46.388                                   | 5.685                               | 48.566                                 | 3.73%          | -4.48%           |
|                                    |                |                                     | 5540                     | 5.907                                 | 46.379                                   | 5.696                               | 48.553                                 | 3.70%          | -4.48%           |
|                                    |                |                                     | 5550                     | 5.917                                 | 46.363                                   | 5.708                               | 48.539                                 | 3.66%          | -4.48%           |
|                                    |                |                                     | 5560                     | 5.929                                 | 46.340                                   | 5.720                               | 48.526                                 | 3.65%          | -4.50%           |
|                                    |                |                                     | 5580                     | 5.951                                 | 46.303                                   | 5.743                               | 48.499                                 | 3.62%          | -4.53%           |
|                                    |                |                                     | 5600                     | 5.985                                 | 46.274                                   | 5.766                               | 48.471                                 | 3.80%          | -4.53%           |
|                                    |                |                                     | 5610                     | 6.000                                 | 46.250                                   | 5.778                               | 48.458                                 | 3.84%          | -4.56%           |
|                                    |                |                                     | 5620                     | 6.014                                 | 46.234                                   | 5.790                               | 48.444                                 | 3.87%          | -4.56%           |
|                                    |                |                                     | 5640                     | 6.044                                 | 46.223                                   | 5.813                               | 48.417                                 | 3.97%          | -4.53%           |
|                                    |                |                                     | 5660                     | 6.073                                 | 46.164                                   | 5.837                               | 48.390                                 | 4.04%          | -4.60%           |
|                                    |                |                                     | 5670                     | 6.086                                 | 46.140                                   | 5.848                               | 48.376                                 | 4.07%          | -4.62%           |
|                                    |                |                                     | 5680                     | 6.100                                 | 46.133                                   | 5.860                               | 48.363                                 | 4.10%          | -4.61%           |
|                                    |                |                                     | 5690                     | 6.114                                 | 46.123                                   | 5.872                               | 48.349                                 | 4.12%          | -4.60%           |
|                                    |                |                                     | 5700                     | 6.126                                 | 46.098                                   | 5.883                               | 48.336                                 | 4.13%          | -4.63%           |
|                                    |                |                                     | 5710                     | 6.137                                 | 46.074                                   | 5.895                               | 48.322                                 | 4.11%          | -4.65%           |
|                                    |                |                                     | 5720                     | 6.148                                 | 46.060                                   | 5.907                               | 48.309                                 | 4.08%          | -4.66%           |
|                                    |                |                                     | 5745                     | 6.184                                 | 46.034                                   | 5.936                               | 48.275                                 | 4.18%          | -4.64%           |
|                                    |                |                                     | 5750                     | 6.191                                 | 46.023                                   | 5.942                               | 48.268                                 | 4.19%          | -4.65%           |
|                                    |                |                                     | 5755                     | 6.198                                 | 46.011                                   | 5.947                               | 48.261                                 | 4.22%          | -4.66%           |
|                                    |                |                                     | 5765                     | 6.213                                 | 45.997                                   | 5.959                               | 48.248                                 | 4.26%          | -4.67%           |
|                                    |                |                                     | 5775                     | 6.226                                 | 45.984                                   | 5.971                               | 48.234                                 | 4.27%          | -4.66%           |
|                                    |                |                                     | 5785                     | 6.244                                 | 45.958                                   | 5.982                               | 48.220                                 | 4.39%          | -4.69%           |
|                                    |                |                                     | 5795                     | 6.257                                 | 45.933                                   | 5.994                               | 48.207                                 | 4.39%          | -4.72%           |
|                                    |                |                                     | 5800                     | 6.262                                 | 45.921                                   | 6.000                               | 48.200                                 | 4.37%          | -4.73%           |
|                                    |                |                                     | 5805                     | 6.268                                 | 45.919                                   | 6.006                               | 48.193                                 | 4.36%          | -4.72%           |
|                                    |                |                                     | 5825                     | 6.298                                 | 45.910                                   | 6.029                               | 48.166                                 | 4.46%          | -4.68%           |
| 6/1/2020                           | 5200-5800 Body | 21.4                                | 5180                     | 5.334                                 | 48.844                                   | 5.276                               | 49.041                                 | 1.10%          | -0.81%           |
|                                    |                |                                     | 5190                     | 5.344                                 | 48.847                                   | 5.288                               | 49.028                                 | 1.09%          | -0.78%           |
|                                    |                |                                     | 5200                     | 5.357                                 | 48.834                                   | 5.299                               | 49.014                                 | 1.09%          | -0.78%           |
|                                    |                |                                     | 5210                     | 5.369                                 | 48.818                                   | 5.311                               | 49.001                                 | 1.09%          | -0.78%           |
|                                    |                |                                     | 5220                     | 5.381                                 | 48.594                                   | 5.323                               | 48.987                                 | 1.09%          | -0.80%           |
|                                    |                |                                     | 5240                     | 5.406                                 | 48.553                                   | 5.346                               | 48.960                                 | 1.12%          | -0.83%           |
|                                    |                |                                     | 5250                     | 5.419                                 | 48.521                                   | 5.358                               | 48.947                                 | 1.14%          | -0.87%           |
|                                    |                |                                     | 5260                     | 5.431                                 | 48.491                                   | 5.369                               | 48.933                                 | 1.15%          | -0.90%           |
|                                    |                |                                     | 5270                     | 5.443                                 | 48.456                                   | 5.381                               | 48.919                                 | 1.15%          | -0.95%           |
|                                    |                |                                     | 5280                     | 5.456                                 | 48.409                                   | 5.393                               | 48.906                                 | 1.17%          | -1.02%           |
|                                    |                |                                     | 5290                     | 5.467                                 | 48.346                                   | 5.404                               | 48.892                                 | 1.17%          | -1.12%           |
|                                    |                |                                     | 5300                     | 5.475                                 | 48.294                                   | 5.416                               | 48.879                                 | 1.09%          | -1.20%           |
|                                    |                |                                     | 5310                     | 5.481                                 | 48.243                                   | 5.428                               | 48.865                                 | 0.98%          | -1.27%           |
|                                    |                |                                     | 5320                     | 5.491                                 | 48.182                                   | 5.439                               | 48.851                                 | 0.96%          | -1.36%           |
|                                    |                |                                     | 5500                     | 5.733                                 | 47.778                                   | 5.650                               | 48.607                                 | 1.47%          | -1.71%           |
|                                    |                |                                     | 5510                     | 5.745                                 | 47.752                                   | 5.661                               | 48.594                                 | 1.48%          | -1.73%           |
|                                    |                |                                     | 5520                     | 5.754                                 | 47.726                                   | 5.673                               | 48.580                                 | 1.43%          | -1.76%           |
|                                    |                |                                     | 5530                     | 5.767                                 | 47.696                                   | 5.685                               | 48.566                                 | 1.44%          | -1.81%           |
|                                    |                |                                     | 5540                     | 5.781                                 | 47.650                                   | 5.696                               | 48.553                                 | 1.49%          | -1.86%           |
|                                    |                |                                     | 5550                     | 5.794                                 | 47.614                                   | 5.708                               | 48.539                                 | 1.51%          | -1.91%           |
|                                    |                |                                     | 5560                     | 5.811                                 | 47.590                                   | 5.720                               | 48.526                                 | 1.59%          | -1.93%           |
|                                    |                |                                     | 5580                     | 5.843                                 | 47.522                                   | 5.743                               | 48.499                                 | 1.74%          | -2.01%           |
|                                    |                |                                     | 5600                     | 5.872                                 | 47.456                                   | 5.766                               | 48.471                                 | 1.84%          | -2.09%           |
|                                    |                |                                     | 5610                     | 5.888                                 | 47.434                                   | 5.778                               | 48.458                                 | 1.90%          | -2.11%           |
|                                    |                |                                     | 5620                     | 5.901                                 | 47.421                                   | 5.790                               | 48.444                                 | 1.92%          | -2.11%           |
|                                    |                |                                     | 5640                     | 5.924                                 | 47.391                                   | 5.813                               | 48.417                                 | 1.91%          | -2.12%           |
|                                    |                |                                     | 5660                     | 5.947                                 | 47.326                                   | 5.837                               | 48.390                                 | 1.88%          | -2.20%           |
|                                    |                |                                     | 5670                     | 5.961                                 | 47.281                                   | 5.848                               | 48.376                                 | 1.93%          | -2.26%           |
|                                    |                |                                     | 5680                     | 5.973                                 | 47.230                                   | 5.860                               | 48.363                                 | 1.93%          | -2.34%           |
|                                    |                |                                     | 5690                     | 5.983                                 | 47.176                                   | 5.872                               | 48.349                                 | 1.89%          | -2.43%           |
|                                    |                |                                     | 5700                     | 5.992                                 | 47.114                                   | 5.883                               | 48.336                                 | 1.85%          | -2.53%           |
|                                    |                |                                     | 5710                     | 6.003                                 | 47.050                                   | 5.895                               | 48.322                                 | 1.83%          | -2.63%           |
|                                    |                |                                     | 5720                     | 6.015                                 | 46.993                                   | 5.907                               | 48.309                                 | 1.83%          | -2.72%           |
|                                    |                |                                     | 5745                     | 6.045                                 | 46.903                                   | 5.936                               | 48.275                                 | 1.84%          | -2.84%           |
|                                    |                |                                     | 5750                     | 6.050                                 | 46.893                                   | 5.942                               | 48.268                                 | 1.82%          | -2.85%           |
|                                    |                |                                     | 5755                     | 6.057                                 | 46.893                                   | 5.947                               | 48.261                                 | 1.85%          | -2.83%           |
|                                    |                |                                     | 5765                     | 6.072                                 | 46.885                                   | 5.959                               | 48.248                                 | 1.90%          | -2.82%           |
|                                    |                |                                     | 5775                     | 6.084                                 | 46.868                                   | 5.971                               | 48.234                                 | 1.89%          | -2.83%           |
|                                    |                |                                     | 5785                     | 6.099                                 | 46.833                                   | 5.982                               | 48.220                                 | 1.96%          | -2.88%           |
|                                    |                |                                     | 5795                     | 6.114                                 | 46.789                                   | 5.994                               | 48.207                                 | 2.00%          | -2.94%           |
|                                    |                |                                     | 5800                     | 6.123                                 | 46.766                                   | 6.000                               | 48.200                                 | 2.05%          | -2.98%           |
|                                    |                |                                     | 5805                     | 6.131                                 | 46.750                                   | 6.006                               | 48.193                                 | 2.08%          | -2.99%           |
|                                    |                |                                     | 5825                     | 6.167                                 | 46.703                                   | 6.029                               | 48.166                                 | 2.29%          | -3.04%           |

The above measured tissue parameters were used in the DASY software. The DASY software was used to perform interpolation to determine the dielectric parameters at the SAR test device frequencies (per KDB Publication 865664 D01v01r04 and IEEE 1528-2013 6.6.1.2). The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

|                                      |                                                                                                                                                                                                                                     |                               |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of  Siemens</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                  | DUT Type:<br>Portable Handset |                                                                                       | Page 196 of 305                 |

## 10.2 Test System Verification

Prior to SAR assessment, the system is verified to  $\pm 10\%$  of the SAR measurement on the reference dipole at the time of calibration by the calibration facility. Full system validation status and result summary can be found in Appendix D.

**Table 10-6**  
**System Verification Results – 1g Head**

| System Verification<br>TARGET & MEASURED |                        |             |            |                |                  |                 |           |          |                                   |                                     |                                         |                             |
|------------------------------------------|------------------------|-------------|------------|----------------|------------------|-----------------|-----------|----------|-----------------------------------|-------------------------------------|-----------------------------------------|-----------------------------|
| SAR System #                             | Tissue Frequency (MHz) | Tissue Type | Date       | Amb. Temp (°C) | Liquid Temp (°C) | Input Power (W) | Source SN | Probe SN | Measured SAR <sub>1g</sub> (W/kg) | 1 W Target SAR <sub>1g</sub> (W/kg) | 1 W Normalized SAR <sub>1g</sub> (W/kg) | Deviation <sub>1g</sub> (%) |
| E                                        | 750                    | HEAD        | 05/13/2020 | 21.6           | 20.6             | 0.200           | 1003      | 3589     | 1.630                             | 8.780                               | 8.150                                   | -7.18%                      |
| E                                        | 750                    | HEAD        | 05/17/2020 | 22.3           | 22.0             | 0.200           | 1003      | 3589     | 1.830                             | 8.780                               | 9.150                                   | 4.21%                       |
| E                                        | 750                    | HEAD        | 05/20/2020 | 22.5           | 21.7             | 0.200           | 1003      | 3589     | 1.670                             | 8.780                               | 8.350                                   | -4.90%                      |
| P                                        | 835                    | HEAD        | 05/06/2020 | 21.3           | 20.8             | 0.200           | 4d133     | 7551     | 1.890                             | 9.430                               | 9.450                                   | 0.21%                       |
| P                                        | 835                    | HEAD        | 05/11/2020 | 21.9           | 20.6             | 0.200           | 4d047     | 7551     | 1.870                             | 9.420                               | 9.350                                   | -0.74%                      |
| P                                        | 835                    | HEAD        | 05/13/2020 | 21.5           | 20.9             | 0.200           | 4d132     | 7551     | 1.900                             | 9.650                               | 9.500                                   | -1.55%                      |
| L                                        | 1750                   | HEAD        | 05/13/2020 | 23.9           | 20.5             | 0.100           | 1150      | 7410     | 3.610                             | 36.500                              | 36.100                                  | -1.10%                      |
| L                                        | 1900                   | HEAD        | 05/11/2020 | 21.8           | 21.0             | 0.100           | 5d080     | 7410     | 4.290                             | 39.800                              | 42.900                                  | 7.79%                       |
| E                                        | 2300                   | HEAD        | 04/29/2020 | 22.5           | 21.8             | 0.100           | 1073      | 3589     | 4.730                             | 49.200                              | 47.300                                  | -3.86%                      |
| E                                        | 2450                   | HEAD        | 05/03/2020 | 22.9           | 22.4             | 0.100           | 719       | 3589     | 5.240                             | 53.100                              | 52.400                                  | -1.32%                      |
| E                                        | 2450                   | HEAD        | 05/24/2020 | 23.2           | 21.5             | 0.100           | 719       | 3589     | 5.340                             | 53.100                              | 53.400                                  | 0.56%                       |
| E                                        | 2450                   | HEAD        | 05/27/2020 | 22.9           | 22.7             | 0.100           | 797       | 3589     | 5.120                             | 52.700                              | 51.200                                  | -2.85%                      |
| E                                        | 2450                   | HEAD        | 05/31/2020 | 22.2           | 21.9             | 0.100           | 719       | 3589     | 5.210                             | 53.100                              | 52.100                                  | -1.88%                      |
| E                                        | 2600                   | HEAD        | 05/31/2020 | 22.2           | 21.9             | 0.100           | 1064      | 3589     | 5.810                             | 58.100                              | 58.100                                  | 0.00%                       |
| D                                        | 3500                   | HEAD        | 06/01/2020 | 22.3           | 21.8             | 0.100           | 1059      | 7488     | 6.190                             | 64.600                              | 61.900                                  | -4.18%                      |
| D                                        | 3700                   | HEAD        | 06/01/2020 | 22.3           | 21.8             | 0.100           | 1018      | 7488     | 6.150                             | 65.800                              | 61.500                                  | -6.53%                      |
| H                                        | 5250                   | HEAD        | 05/28/2020 | 22.2           | 21.1             | 0.050           | 1191      | 7357     | 3.730                             | 80.800                              | 74.600                                  | -7.67%                      |
| H                                        | 5600                   | HEAD        | 05/28/2020 | 22.2           | 21.1             | 0.050           | 1191      | 7357     | 3.930                             | 82.700                              | 78.600                                  | -4.96%                      |
| H                                        | 5750                   | HEAD        | 05/28/2020 | 22.2           | 21.1             | 0.050           | 1191      | 7357     | 3.710                             | 80.200                              | 74.200                                  | -7.48%                      |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 197 of 305                        |

**Table 10-7**  
**System Verification Results – 1g Body**

| System Verification |                        |             |            |                |                  |                 |           |          |                                   |                                     |                                         |                |
|---------------------|------------------------|-------------|------------|----------------|------------------|-----------------|-----------|----------|-----------------------------------|-------------------------------------|-----------------------------------------|----------------|
| TARGET & MEASURED   |                        |             |            |                |                  |                 |           |          |                                   |                                     |                                         |                |
| SAR System #        | Tissue Frequency (MHz) | Tissue Type | Date       | Amb. Temp (°C) | Liquid Temp (°C) | Input Power (W) | Source SN | Probe SN | Measured SAR <sub>1g</sub> (W/kg) | 1 W Target SAR <sub>1g</sub> (W/kg) | 1 W Normalized SAR <sub>1g</sub> (W/kg) | Deviation, (%) |
| E                   | 750                    | HEAD        | 05/13/2020 | 21.6           | 20.6             | 0.200           | 1003      | 3589     | 1.630                             | 8.780                               | 8.150                                   | -7.18%         |
| E                   | 750                    | HEAD        | 05/17/2020 | 22.3           | 22.0             | 0.200           | 1003      | 3589     | 1.830                             | 8.780                               | 9.150                                   | 4.21%          |
| E                   | 750                    | HEAD        | 05/20/2020 | 22.5           | 21.7             | 0.200           | 1003      | 3589     | 1.670                             | 8.780                               | 8.350                                   | -4.90%         |
| P                   | 835                    | HEAD        | 05/06/2020 | 21.3           | 20.8             | 0.200           | 4d133     | 7551     | 1.890                             | 9.430                               | 9.450                                   | 0.21%          |
| P                   | 835                    | HEAD        | 05/11/2020 | 21.9           | 20.6             | 0.200           | 4d047     | 7551     | 1.870                             | 9.420                               | 9.350                                   | -0.74%         |
| P                   | 835                    | HEAD        | 05/13/2020 | 21.5           | 20.9             | 0.200           | 4d132     | 7551     | 1.900                             | 9.650                               | 9.500                                   | -1.55%         |
| L                   | 1750                   | HEAD        | 05/13/2020 | 23.9           | 20.5             | 0.100           | 1150      | 7410     | 3.610                             | 36.500                              | 36.100                                  | -1.10%         |
| L                   | 1900                   | HEAD        | 05/11/2020 | 21.8           | 21.0             | 0.100           | 5d080     | 7410     | 4.290                             | 39.800                              | 42.900                                  | 7.79%          |
| E                   | 2300                   | HEAD        | 04/29/2020 | 22.5           | 21.8             | 0.100           | 1073      | 3589     | 4.730                             | 49.200                              | 47.300                                  | -3.86%         |
| E                   | 2450                   | HEAD        | 05/03/2020 | 22.9           | 22.4             | 0.100           | 719       | 3589     | 5.240                             | 53.100                              | 52.400                                  | -1.32%         |
| E                   | 2450                   | HEAD        | 05/24/2020 | 23.2           | 21.5             | 0.100           | 719       | 3589     | 5.340                             | 53.100                              | 53.400                                  | 0.56%          |
| E                   | 2450                   | HEAD        | 05/27/2020 | 22.9           | 22.7             | 0.100           | 797       | 3589     | 5.120                             | 52.700                              | 51.200                                  | -2.85%         |
| E                   | 2450                   | HEAD        | 05/31/2020 | 22.2           | 21.9             | 0.100           | 719       | 3589     | 5.210                             | 53.100                              | 52.100                                  | -1.88%         |
| E                   | 2600                   | HEAD        | 05/31/2020 | 22.2           | 21.9             | 0.100           | 1064      | 3589     | 5.810                             | 58.100                              | 58.100                                  | 0.00%          |
| D                   | 3500                   | HEAD        | 06/01/2020 | 22.3           | 21.8             | 0.100           | 1059      | 7488     | 6.190                             | 64.600                              | 61.900                                  | -4.18%         |
| D                   | 3700                   | HEAD        | 06/01/2020 | 22.3           | 21.8             | 0.100           | 1018      | 7488     | 6.150                             | 65.800                              | 61.500                                  | -6.53%         |
| H                   | 5250                   | HEAD        | 05/28/2020 | 22.2           | 21.1             | 0.050           | 1191      | 7357     | 3.730                             | 80.800                              | 74.600                                  | -7.67%         |
| H                   | 5600                   | HEAD        | 05/28/2020 | 22.2           | 21.1             | 0.050           | 1191      | 7357     | 3.930                             | 82.700                              | 78.600                                  | -4.96%         |
| H                   | 5750                   | HEAD        | 05/28/2020 | 22.2           | 21.1             | 0.050           | 1191      | 7357     | 3.710                             | 80.200                              | 74.200                                  | -7.48%         |
| L                   | 750                    | BODY        | 04/22/2020 | 21.2           | 20.5             | 0.200           | 1161      | 7410     | 1.820                             | 8.430                               | 9.100                                   | 7.95%          |
| L                   | 750                    | BODY        | 04/27/2020 | 21.4           | 20.3             | 0.200           | 1161      | 7410     | 1.750                             | 8.430                               | 8.750                                   | 3.80%          |
| M                   | 835                    | BODY        | 05/06/2020 | 21.6           | 21.0             | 0.200           | 4d133     | 7570     | 1.930                             | 9.750                               | 9.650                                   | -1.03%         |
| M                   | 835                    | BODY        | 05/08/2020 | 22.6           | 21.4             | 0.200           | 4d133     | 7570     | 1.930                             | 9.750                               | 9.650                                   | -1.03%         |
| D                   | 835                    | BODY        | 05/11/2020 | 22.1           | 21.6             | 0.200           | 4d047     | 7488     | 1.910                             | 9.470                               | 9.550                                   | 0.84%          |
| D                   | 835                    | BODY        | 05/13/2020 | 22.6           | 21.8             | 0.200           | 4d047     | 7488     | 1.910                             | 9.470                               | 9.550                                   | 0.84%          |
| D                   | 835                    | BODY        | 05/18/2020 | 22.1           | 21.8             | 0.200           | 4d047     | 7488     | 1.900                             | 9.470                               | 9.500                                   | 0.32%          |
| I                   | 1750                   | BODY        | 04/29/2020 | 23.1           | 22.2             | 0.100           | 1150      | 7527     | 3.820                             | 36.600                              | 38.200                                  | 4.37%          |
| I                   | 1750                   | BODY        | 05/03/2020 | 21.6           | 21.2             | 0.100           | 1150      | 7527     | 3.880                             | 36.600                              | 38.800                                  | 6.01%          |
| I                   | 1750                   | BODY        | 05/06/2020 | 21.1           | 21.9             | 0.100           | 1150      | 7527     | 3.510                             | 36.600                              | 35.100                                  | -4.10%         |
| I                   | 1750                   | BODY        | 05/14/2020 | 21.6           | 21.6             | 0.100           | 1150      | 7527     | 3.750                             | 36.600                              | 37.500                                  | 2.46%          |
| I                   | 1750                   | BODY        | 05/20/2020 | 21.4           | 20.6             | 0.100           | 1008      | 7527     | 3.830                             | 37.400                              | 38.300                                  | 2.41%          |
| I                   | 1750                   | BODY        | 06/01/2020 | 21.4           | 21.2             | 0.100           | 1008      | 7527     | 4.010                             | 37.400                              | 40.100                                  | 7.22%          |
| J                   | 1900                   | BODY        | 05/03/2020 | 21.1           | 22.8             | 0.100           | 5d080     | 7571     | 4.210                             | 39.200                              | 42.100                                  | 7.40%          |
| O                   | 1900                   | BODY        | 05/06/2020 | 21.9           | 21.7             | 0.100           | 5d148     | 7552     | 3.910                             | 39.100                              | 39.100                                  | 0.00%          |
| O                   | 1900                   | BODY        | 05/10/2020 | 22.6           | 20.8             | 0.100           | 5d148     | 7552     | 4.130                             | 39.100                              | 41.300                                  | 5.63%          |
| J                   | 1900                   | BODY        | 05/17/2020 | 22.5           | 24.0             | 0.100           | 5d080     | 7571     | 4.040                             | 39.200                              | 40.400                                  | 3.06%          |
| J                   | 1900                   | BODY        | 05/20/2020 | 22.9           | 22.0             | 0.100           | 5d080     | 7571     | 4.020                             | 39.200                              | 40.200                                  | 2.55%          |
| J                   | 1900                   | BODY        | 05/23/2020 | 23.1           | 23.9             | 0.100           | 5d080     | 7571     | 4.150                             | 39.200                              | 41.500                                  | 5.87%          |
| J                   | 1900                   | BODY        | 05/26/2020 | 24.1           | 22.7             | 0.100           | 5d080     | 7571     | 4.050                             | 39.200                              | 40.500                                  | 3.32%          |
| K                   | 2300                   | BODY        | 05/04/2020 | 22.5           | 21.9             | 0.100           | 1073      | 7547     | 5.130                             | 47.700                              | 51.300                                  | 7.55%          |
| K                   | 2450                   | BODY        | 05/13/2020 | 24.0           | 21.4             | 0.100           | 797       | 7547     | 5.000                             | 51.100                              | 50.000                                  | -2.15%         |
| K                   | 2450                   | BODY        | 05/18/2020 | 22.2           | 22.0             | 0.100           | 719       | 7547     | 5.250                             | 50.800                              | 52.500                                  | 3.35%          |
| K                   | 2450                   | BODY        | 05/20/2020 | 22.9           | 21.5             | 0.100           | 719       | 7547     | 5.090                             | 50.800                              | 50.900                                  | 0.20%          |
| K                   | 2450                   | BODY        | 05/27/2020 | 22.9           | 21.8             | 0.100           | 719       | 7547     | 5.250                             | 50.800                              | 52.500                                  | 3.35%          |
| K                   | 2600                   | BODY        | 05/27/2020 | 22.9           | 21.8             | 0.100           | 1064      | 7547     | 5.430                             | 55.600                              | 54.300                                  | -2.34%         |
| D                   | 3500                   | BODY        | 06/03/2020 | 22.1           | 21.9             | 0.100           | 1059      | 7488     | 6.520                             | 65.100                              | 65.200                                  | 0.15%          |
| D                   | 3700                   | BODY        | 06/03/2020 | 22.1           | 21.9             | 0.100           | 1018      | 7488     | 6.640                             | 64.300                              | 66.400                                  | 3.27%          |
| G                   | 5250                   | BODY        | 05/24/2020 | 22.0           | 20.9             | 0.050           | 1057      | 7409     | 3.670                             | 75.900                              | 73.400                                  | -3.29%         |
| G                   | 5600                   | BODY        | 05/24/2020 | 22.0           | 20.9             | 0.050           | 1057      | 7409     | 4.090                             | 79.900                              | 81.800                                  | 2.38%          |
| G                   | 5750                   | BODY        | 05/24/2020 | 22.0           | 20.9             | 0.050           | 1057      | 7409     | 3.920                             | 76.700                              | 78.400                                  | 2.22%          |
| G                   | 5250                   | BODY        | 06/01/2020 | 21.9           | 21.4             | 0.050           | 1057      | 7409     | 3.710                             | 75.900                              | 74.200                                  | -2.24%         |
| G                   | 5600                   | BODY        | 06/01/2020 | 21.9           | 21.4             | 0.050           | 1057      | 7409     | 3.970                             | 79.900                              | 79.400                                  | -0.63%         |
| G                   | 5750                   | BODY        | 06/01/2020 | 21.9           | 21.4             | 0.050           | 1057      | 7409     | 3.780                             | 76.700                              | 75.600                                  | -1.43%         |

|                                      |                                                                                                                                                                                                                                                                                                  |                               |                 |                                 |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------|---------------------------------|
| FCC ID: A3LSMN986U                   | <div><b>PCTEST</b><br/><small>Proud to be part of the Samsung</small></div> <div>SAR EVALUATION REPORT</div> <div></div> |                               |                 | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                               | DUT Type:<br>Portable Handset | Page 198 of 305 |                                 |

**Table 10-8**  
**System Verification Results – 10g**

| System Verification<br>TARGET & MEASURED |                        |             |            |                |                  |                 |           |          |                                    |                                      |                                          |                              |
|------------------------------------------|------------------------|-------------|------------|----------------|------------------|-----------------|-----------|----------|------------------------------------|--------------------------------------|------------------------------------------|------------------------------|
| SAR System #                             | Tissue Frequency (MHz) | Tissue Type | Date       | Amb. Temp (°C) | Liquid Temp (°C) | Input Power (W) | Source SN | Probe SN | Measured SAR <sub>10g</sub> (W/kg) | 1 W Target SAR <sub>10g</sub> (W/kg) | 1 W Normalized SAR <sub>10g</sub> (W/kg) | Deviation <sub>10g</sub> (%) |
| I                                        | 1750                   | BODY        | 05/20/2020 | 21.4           | 20.6             | 0.100           | 1008      | 7527     | 2.010                              | 19.900                               | 20.100                                   | 1.01%                        |
| I                                        | 1750                   | BODY        | 05/29/2020 | 21.6           | 21.8             | 0.100           | 1008      | 7527     | 1.940                              | 19.900                               | 19.400                                   | -2.51%                       |
| I                                        | 1750                   | BODY        | 06/01/2020 | 21.4           | 21.2             | 0.100           | 1008      | 7527     | 2.110                              | 19.900                               | 21.100                                   | 6.03%                        |
| O                                        | 1900                   | BODY        | 05/06/2020 | 21.9           | 21.7             | 0.100           | 5d148     | 7552     | 2.020                              | 20.500                               | 20.200                                   | -1.46%                       |
| O                                        | 1900                   | BODY        | 05/12/2020 | 24.9           | 22.3             | 0.100           | 5d148     | 7552     | 2.160                              | 20.500                               | 21.600                                   | 5.37%                        |
| J                                        | 1900                   | BODY        | 05/17/2020 | 22.5           | 24.0             | 0.100           | 5d080     | 7571     | 2.070                              | 20.600                               | 20.700                                   | 0.49%                        |
| J                                        | 1900                   | BODY        | 05/23/2020 | 23.1           | 23.9             | 0.100           | 5d080     | 7571     | 2.160                              | 20.600                               | 21.600                                   | 4.85%                        |
| K                                        | 2300                   | BODY        | 06/07/2020 | 23.6           | 23.3             | 0.100           | 1073      | 7547     | 2.460                              | 23.200                               | 24.600                                   | 6.03%                        |
| K                                        | 2450                   | BODY        | 05/20/2020 | 22.9           | 21.5             | 0.100           | 719       | 7547     | 2.330                              | 24.000                               | 23.300                                   | -2.92%                       |
| K                                        | 2450                   | BODY        | 06/01/2020 | 22.5           | 21.6             | 0.100           | 719       | 7547     | 2.400                              | 24.000                               | 24.000                                   | 0.00%                        |
| K                                        | 2600                   | BODY        | 06/01/2020 | 22.5           | 21.6             | 0.100           | 1064      | 7547     | 2.400                              | 25.000                               | 24.000                                   | -4.00%                       |
| K                                        | 2600                   | BODY        | 05/20/2020 | 22.9           | 21.5             | 0.100           | 1064      | 7547     | 2.450                              | 25.000                               | 24.500                                   | -2.00%                       |
| G                                        | 5250                   | BODY        | 05/24/2020 | 22.0           | 20.9             | 0.050           | 1057      | 7409     | 1.020                              | 21.100                               | 20.400                                   | -3.32%                       |
| G                                        | 5600                   | BODY        | 05/24/2020 | 22.0           | 20.9             | 0.050           | 1057      | 7409     | 1.130                              | 22.300                               | 22.600                                   | 1.35%                        |
| G                                        | 5750                   | BODY        | 05/24/2020 | 22.0           | 20.9             | 0.050           | 1057      | 7409     | 1.070                              | 21.200                               | 21.400                                   | 0.94%                        |

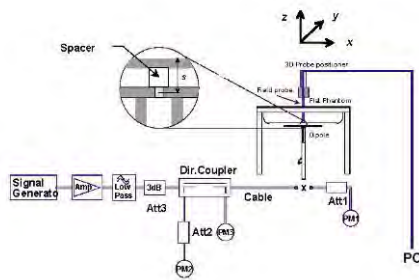


**Figure 10-1**  
**System Verification Setup Diagram**



**Figure 10-2**  
**System Verification Setup Photo**

|                                      |                                                                                                                                                                                                                                                                                                      |                               |                                 |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   | <div><div>PCTEST<br/><small>Proud to be part of the ELEMENT</small></div></div> <div>SAR EVALUATION REPORT</div> <div></div> |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                                   | DUT Type:<br>Portable Handset | Page 199 of 305                 |



# 11 SAR DATA SUMMARY

## 11.1 Standalone Head SAR Data

**Table 11-1**  
**CDMA BC10 (\$90S) Head SAR**

| MEASUREMENT RESULTS                                                                               |     |                   |             |                             |                       |                  |                                                 |               |               |                      |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|-----|-------------------|-------------|-----------------------------|-----------------------|------------------|-------------------------------------------------|---------------|---------------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |     | Mode              | Service     | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Side                                            | Test Position | Antenna State | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch. |                   |             |                             |                       |                  |                                                 |               |               |                      |            | (W/kg)   |                | (W/kg)            |        |
| 820.10                                                                                            | 564 | CDMA BC10 (\$90S) | RC3 / SO55  | 26.0                        | 24.75                 | 0.03             | Right                                           | Cheek         | 27            | 0120M                | 1:1        | 0.117    | 1.334          | 0.156             |        |
| 820.10                                                                                            | 564 | CDMA BC10 (\$90S) | RC3 / SO55  | 26.0                        | 24.75                 | -0.10            | Right                                           | Tilt          | 27            | 0120M                | 1:1        | 0.103    | 1.334          | 0.137             |        |
| 820.10                                                                                            | 564 | CDMA BC10 (\$90S) | RC3 / SO55  | 26.0                        | 24.75                 | 0.01             | Left                                            | Cheek         | 27            | 0120M                | 1:1        | 0.159    | 1.334          | 0.212             |        |
| 820.10                                                                                            | 564 | CDMA BC10 (\$90S) | RC3 / SO55  | 26.0                        | 24.75                 | 0.03             | Left                                            | Tilt          | 27            | 0120M                | 1:1        | 0.098    | 1.334          | 0.131             |        |
| 820.10                                                                                            | 564 | CDMA BC10 (\$90S) | EVDO Rev. A | 26.0                        | 24.50                 | 0.02             | Right                                           | Cheek         | 27            | 0120M                | 1:1        | 0.122    | 1.413          | 0.172             |        |
| 820.10                                                                                            | 564 | CDMA BC10 (\$90S) | EVDO Rev. A | 26.0                        | 24.50                 | 0.04             | Right                                           | Tilt          | 27            | 0120M                | 1:1        | 0.112    | 1.413          | 0.158             |        |
| 820.10                                                                                            | 564 | CDMA BC10 (\$90S) | EVDO Rev. A | 26.0                        | 24.50                 | -0.05            | Left                                            | Cheek         | 27            | 0120M                | 1:1        | 0.188    | 1.413          | 0.266             | A1     |
| 820.10                                                                                            | 564 | CDMA BC10 (\$90S) | EVDO Rev. A | 26.0                        | 24.50                 | 0.19             | Left                                            | Tilt          | 27            | 0120M                | 1:1        | 0.100    | 1.413          | 0.141             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |     |                   |             |                             |                       |                  | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |               |               |                      |            |          |                |                   |        |

**Table 11-2**  
**CDMA BC0 (\$22H) Head SAR**

| MEASUREMENT RESULTS                                                                               |     |                  |             |                             |                       |                  |                                                 |               |               |                      |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|-----|------------------|-------------|-----------------------------|-----------------------|------------------|-------------------------------------------------|---------------|---------------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |     | Mode             | Service     | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Side                                            | Test Position | Antenna State | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch. |                  |             |                             |                       |                  |                                                 |               |               |                      |            | (W/kg)   |                | (W/kg)            |        |
| 836.52                                                                                            | 384 | CDMA BC0 (\$22H) | RC3 / SO55  | 25.8                        | 24.93                 | 0.01             | Right                                           | Cheek         | 41            | 0120M                | 1:1        | 0.112    | 1.222          | 0.137             |        |
| 836.52                                                                                            | 384 | CDMA BC0 (\$22H) | RC3 / SO55  | 25.8                        | 24.93                 | 0.04             | Right                                           | Tilt          | 41            | 0120M                | 1:1        | 0.087    | 1.222          | 0.106             |        |
| 836.52                                                                                            | 384 | CDMA BC0 (\$22H) | RC3 / SO55  | 25.8                        | 24.93                 | -0.18            | Left                                            | Cheek         | 41            | 0120M                | 1:1        | 0.140    | 1.222          | 0.171             |        |
| 836.52                                                                                            | 384 | CDMA BC0 (\$22H) | RC3 / SO55  | 25.8                        | 24.93                 | 0.10             | Left                                            | Tilt          | 41            | 0120M                | 1:1        | 0.091    | 1.222          | 0.111             |        |
| 836.52                                                                                            | 384 | CDMA BC0 (\$22H) | EVDO Rev. A | 25.8                        | 24.78                 | 0.13             | Right                                           | Cheek         | 41            | 0120M                | 1:1        | 0.108    | 1.265          | 0.137             |        |
| 836.52                                                                                            | 384 | CDMA BC0 (\$22H) | EVDO Rev. A | 25.8                        | 24.78                 | 0.13             | Right                                           | Tilt          | 41            | 0120M                | 1:1        | 0.089    | 1.265          | 0.113             |        |
| 836.52                                                                                            | 384 | CDMA BC0 (\$22H) | EVDO Rev. A | 25.8                        | 24.78                 | 0.15             | Left                                            | Cheek         | 41            | 0120M                | 1:1        | 0.150    | 1.265          | 0.190             | A2     |
| 836.52                                                                                            | 384 | CDMA BC0 (\$22H) | EVDO Rev. A | 25.8                        | 24.78                 | 0.02             | Left                                            | Tilt          | 41            | 0120M                | 1:1        | 0.092    | 1.265          | 0.116             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |     |                  |             |                             |                       |                  | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |               |               |                      |            |          |                |                   |        |

|                                      |                                                                                                                                                                                                                    |                               |                                        |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br>Proud to be part of the  | <b>SAR EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                 | DUT Type:<br>Portable Handset | Page 200 of 305                        |



**Table 11-3  
PCS CDMA Head SAR**

| MEASUREMENT RESULTS                                                                               |     |          |             |                             |                       |                  |       |                                                 |               |                      |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|-----|----------|-------------|-----------------------------|-----------------------|------------------|-------|-------------------------------------------------|---------------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |     | Mode     | Service     | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Side  | Test Position                                   | Antenna State | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch. |          |             |                             |                       |                  |       |                                                 |               |                      |            | (W/kg)   |                | (W/kg)            |        |
| 1880.00                                                                                           | 600 | PCS CDMA | RC3 / SO55  | 24.0                        | 23.21                 | 0.08             | Right | Cheek                                           | 26            | 0116M                | 1:1        | 0.101    | 1.199          | 0.121             |        |
| 1880.00                                                                                           | 600 | PCS CDMA | RC3 / SO55  | 24.0                        | 23.21                 | 0.08             | Right | Tilt                                            | 26            | 0116M                | 1:1        | 0.064    | 1.199          | 0.077             |        |
| 1880.00                                                                                           | 600 | PCS CDMA | RC3 / SO55  | 24.0                        | 23.21                 | 0.16             | Left  | Cheek                                           | 26            | 0116M                | 1:1        | 0.086    | 1.199          | 0.103             |        |
| 1880.00                                                                                           | 600 | PCS CDMA | RC3 / SO55  | 24.0                        | 23.21                 | 0.11             | Left  | Tilt                                            | 26            | 0116M                | 1:1        | 0.076    | 1.199          | 0.091             |        |
| 1880.00                                                                                           | 600 | PCS CDMA | EVDO Rev. A | 24.0                        | 23.25                 | 0.08             | Right | Cheek                                           | 26            | 0116M                | 1:1        | 0.104    | 1.189          | 0.124             | A3     |
| 1880.00                                                                                           | 600 | PCS CDMA | EVDO Rev. A | 24.0                        | 23.25                 | 0.16             | Right | Tilt                                            | 26            | 0116M                | 1:1        | 0.068    | 1.189          | 0.081             |        |
| 1880.00                                                                                           | 600 | PCS CDMA | EVDO Rev. A | 24.0                        | 23.25                 | 0.09             | Left  | Cheek                                           | 26            | 0116M                | 1:1        | 0.089    | 1.189          | 0.106             |        |
| 1880.00                                                                                           | 600 | PCS CDMA | EVDO Rev. A | 24.0                        | 23.25                 | 0.10             | Left  | Tilt                                            | 26            | 0116M                | 1:1        | 0.087    | 1.189          | 0.103             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |     |          |             |                             |                       |                  |       | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |               |                      |            |          |                |                   |        |

**Table 11-4  
GSM 850 Head SAR**

| MEASUREMENT RESULTS                                                                               |     |         |         |                             |                       |                  |                                                 |               |                      |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|-----|---------|---------|-----------------------------|-----------------------|------------------|-------------------------------------------------|---------------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |     | Mode    | Service | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Side                                            | Test Position | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch. |         |         |                             |                       |                  |                                                 |               |                      |            | (W/kg)   |                | (W/kg)            |        |
| 836.60                                                                                            | 190 | GSM 850 | GSM     | 33.5                        | 32.86                 | 0.12             | Right                                           | Cheek         | 0120M                | 1:8.3      | 0.030    | 1.159          | 0.035             |        |
| 836.60                                                                                            | 190 | GSM 850 | GSM     | 33.5                        | 32.86                 | 0.03             | Right                                           | Tilt          | 0120M                | 1:8.3      | 0.022    | 1.159          | 0.025             |        |
| 836.60                                                                                            | 190 | GSM 850 | GSM     | 33.5                        | 32.86                 | 0.05             | Left                                            | Cheek         | 0120M                | 1:8.3      | 0.041    | 1.159          | 0.048             | A4     |
| 836.60                                                                                            | 190 | GSM 850 | GSM     | 33.5                        | 32.86                 | 0.11             | Left                                            | Tilt          | 0120M                | 1:8.3      | 0.023    | 1.159          | 0.027             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |     |         |         |                             |                       |                  | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |               |                      |            |          |                |                   |        |

**Table 11-5  
GSM 1900 Head SAR**

| MEASUREMENT RESULTS                                                                               |     |          |         |                             |                       |                  |                                                 |               |                      |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|-----|----------|---------|-----------------------------|-----------------------|------------------|-------------------------------------------------|---------------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |     | Mode     | Service | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Side                                            | Test Position | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch. |          |         |                             |                       |                  |                                                 |               |                      |            | (W/kg)   |                | (W/kg)            |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GSM     | 30.5                        | 29.74                 | 0.07             | Right                                           | Cheek         | 0116M                | 1:8.3      | 0.047    | 1.191          | 0.056             | A5     |
| 1880.00                                                                                           | 661 | GSM 1900 | GSM     | 30.5                        | 29.74                 | -0.18            | Right                                           | Tilt          | 0116M                | 1:8.3      | 0.032    | 1.191          | 0.038             |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GSM     | 30.5                        | 29.74                 | -0.14            | Left                                            | Cheek         | 0116M                | 1:8.3      | 0.036    | 1.191          | 0.043             |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GSM     | 30.5                        | 29.74                 | 0.19             | Left                                            | Tilt          | 0116M                | 1:8.3      | 0.032    | 1.191          | 0.038             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |     |          |         |                             |                       |                  | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |               |                      |            |          |                |                   |        |

|                                      |                                                                                                                                     |                               |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   | <br>PCTEST<br>Proud to be part of the ROHM group | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                  | DUT Type:<br>Portable Handset |                                                                                       | Page 201 of 305                 |

**Table 11-6**  
**UMTS 850 Head SAR**

| MEASUREMENT RESULTS                                      |      |          |         |                             |                       |                  |                                                 |               |               |                      |            |          |                |                   |        |
|----------------------------------------------------------|------|----------|---------|-----------------------------|-----------------------|------------------|-------------------------------------------------|---------------|---------------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                |      | Mode     | Service | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Side                                            | Test Position | Antenna State | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                                      | Ch.  |          |         |                             |                       |                  |                                                 |               |               |                      |            | (W/kg)   |                | (W/kg)            |        |
| 836.60                                                   | 4183 | UMTS 850 | RMC     | 25.8                        | 25.20                 | -0.09            | Right                                           | Cheek         | 41            | 0120M                | 1:1        | 0.097    | 1.148          | 0.111             |        |
| 836.60                                                   | 4183 | UMTS 850 | RMC     | 25.8                        | 25.20                 | -0.09            | Right                                           | Tilt          | 41            | 0120M                | 1:1        | 0.068    | 1.148          | 0.078             |        |
| 836.60                                                   | 4183 | UMTS 850 | RMC     | 25.8                        | 25.20                 | 0.12             | Left                                            | Cheek         | 41            | 0120M                | 1:1        | 0.142    | 1.148          | 0.163             | A6     |
| 836.60                                                   | 4183 | UMTS 850 | RMC     | 25.8                        | 25.20                 | -0.11            | Left                                            | Tilt          | 41            | 0120M                | 1:1        | 0.080    | 1.148          | 0.092             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT                    |      |          |         |                             |                       |                  | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |               |               |                      |            |          |                |                   |        |
| Spatial Peak<br>Uncontrolled Exposure/General Population |      |          |         |                             |                       |                  |                                                 |               |               |                      |            |          |                |                   |        |

**Table 11-7**  
**UMTS 1750 Head SAR**

| MEASUREMENT RESULTS                                                                               |      |           |         |                             |                       |                  |                                                 |               |               |                      |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|------|-----------|---------|-----------------------------|-----------------------|------------------|-------------------------------------------------|---------------|---------------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |      | Mode      | Service | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Side                                            | Test Position | Antenna State | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch.  |           |         |                             |                       |                  |                                                 |               |               |                      |            | (W/kg)   |                | (W/kg)            |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 24.5                        | 23.89                 | 0.07             | Right                                           | Cheek         | 108           | 0116M                | 1:1        | 0.129    | 1.151          | 0.148             | A7     |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 24.5                        | 23.89                 | 0.06             | Right                                           | Tilt          | 108           | 0116M                | 1:1        | 0.091    | 1.151          | 0.105             |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 24.5                        | 23.89                 | 0.04             | Left                                            | Cheek         | 108           | 0116M                | 1:1        | 0.097    | 1.151          | 0.112             |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 24.5                        | 23.89                 | 0.12             | Left                                            | Tilt          | 108           | 0116M                | 1:1        | 0.106    | 1.151          | 0.122             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |      |           |         |                             |                       |                  | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |               |               |                      |            |          |                |                   |        |

**Table 11-8**  
**UMTS 1900 Head SAR**

| MEASUREMENT RESULTS                                                                               |      |           |         |                             |                       |                  |                                                 |               |               |                      |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|------|-----------|---------|-----------------------------|-----------------------|------------------|-------------------------------------------------|---------------|---------------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |      | Mode      | Service | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Side                                            | Test Position | Antenna State | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch.  |           |         |                             |                       |                  |                                                 |               |               |                      |            | (W/kg)   |                | (W/kg)            |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 24.0                        | 23.34                 | 0.19             | Right                                           | Cheek         | 26            | 0116M                | 1:1        | 0.094    | 1.164          | 0.109             | A8     |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 24.0                        | 23.34                 | 0.04             | Right                                           | Tilt          | 26            | 0116M                | 1:1        | 0.055    | 1.164          | 0.064             |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 24.0                        | 23.34                 | 0.13             | Left                                            | Cheek         | 26            | 0116M                | 1:1        | 0.070    | 1.164          | 0.081             |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 24.0                        | 23.34                 | 0.08             | Left                                            | Tilt          | 26            | 0116M                | 1:1        | 0.070    | 1.164          | 0.081             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |      |           |         |                             |                       |                  | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |               |               |                      |            |          |                |                   |        |

|                                      |                                                                                                                                                                                                                             |                               |                                                                                       |                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                          | DUT Type:<br>Portable Handset |                                                                                       | Page 202 of 305                 |

**Table 11-9**  
**LTE Band 71 Head SAR**

| MEASUREMENT RESULTS                                                                               |        |      |                 |                             |                       |                  |          |      |               |                                                 |            |         |           |                      |            |          |                |                   |        |    |
|---------------------------------------------------------------------------------------------------|--------|------|-----------------|-----------------------------|-----------------------|------------------|----------|------|---------------|-------------------------------------------------|------------|---------|-----------|----------------------|------------|----------|----------------|-------------------|--------|----|
| FREQUENCY                                                                                         |        | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Side | Test Position | Antenna State                                   | Modulation | RB Size | RB Offset | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |    |
| MHz                                                                                               | Ch.    |      |                 |                             |                       |                  |          |      |               |                                                 |            |         |           |                      |            | (W/kg)   |                | (W/kg)            |        |    |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.8                  | 25.17            | 0.13     | 0    | Right         | Cheek                                           | 19         | QPSK    | 1         | 0                    | 0061M      | 1:1      | 0.078          | 1.156             | 0.090  |    |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.8                  | 24.20            | 0.19     | 1    | Right         | Cheek                                           | 19         | QPSK    | 50        | 0                    | 0061M      | 1:1      | 0.064          | 1.148             | 0.073  |    |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.8                  | 25.17            | 0.13     | 0    | Right         | Tilt                                            | 19         | QPSK    | 1         | 0                    | 0061M      | 1:1      | 0.039          | 1.156             | 0.045  |    |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.8                  | 24.20            | 0.10     | 1    | Right         | Tilt                                            | 19         | QPSK    | 50        | 0                    | 0061M      | 1:1      | 0.033          | 1.148             | 0.038  |    |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.8                  | 25.17            | 0.08     | 0    | Left          | Cheek                                           | 19         | QPSK    | 1         | 0                    | 0061M      | 1:1      | 0.106          | 1.156             | 0.123  | A9 |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.8                  | 24.20            | 0.11     | 1    | Left          | Cheek                                           | 19         | QPSK    | 50        | 0                    | 0061M      | 1:1      | 0.091          | 1.148             | 0.104  |    |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.8                  | 25.17            | -0.19    | 0    | Left          | Tilt                                            | 19         | QPSK    | 1         | 0                    | 0061M      | 1:1      | 0.047          | 1.156             | 0.054  |    |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.8                  | 24.20            | 0.00     | 1    | Left          | Tilt                                            | 19         | QPSK    | 50        | 0                    | 0061M      | 1:1      | 0.036          | 1.148             | 0.041  |    |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |        |      |                 |                             |                       |                  |          |      |               | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |            |         |           |                      |            |          |                |                   |        |    |

**Table 11-10**  
**LTE Band 12 Head SAR**

| MEASUREMENT RESULTS                                                                               |       |     |             |                 |                             |                       |                  |          |                                                 |               |               |            |         |           |                      |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|-------|-----|-------------|-----------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------------|---------------|---------------|------------|---------|-----------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |       |     | Mode        | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Side                                            | Test Position | Antenna State | Modulation | RB Size | RB Offset | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
|                                                                                                   |       |     |             |                 |                             |                       |                  |          |                                                 |               |               |            |         |           |                      |            | (W/kg)   |                | (W/kg)            |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 25.8                        | 25.23                 | 0.09             | 0        | Right                                           | Cheek         | 1             | QPSK       | 1       | 0         | 0061M                | 1:1        | 0.087    | 1.140          | 0.099             |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 24.8                        | 24.31                 | 0.15             | 1        | Right                                           | Cheek         | 1             | QPSK       | 25      | 12        | 0061M                | 1:1        | 0.082    | 1.119          | 0.092             |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 25.8                        | 25.23                 | -0.16            | 0        | Right                                           | Tilt          | 1             | QPSK       | 1       | 0         | 0061M                | 1:1        | 0.046    | 1.140          | 0.052             |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 24.8                        | 24.31                 | -0.05            | 1        | Right                                           | Tilt          | 1             | QPSK       | 25      | 12        | 0061M                | 1:1        | 0.044    | 1.119          | 0.049             |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 25.8                        | 25.23                 | 0.08             | 0        | Left                                            | Cheek         | 1             | QPSK       | 1       | 0         | 0061M                | 1:1        | 0.111    | 1.140          | 0.127             | A10    |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 24.8                        | 24.31                 | 0.08             | 1        | Left                                            | Cheek         | 1             | QPSK       | 25      | 12        | 0061M                | 1:1        | 0.095    | 1.119          | 0.106             |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 25.8                        | 25.23                 | 0.02             | 0        | Left                                            | Tilt          | 1             | QPSK       | 1       | 0         | 0061M                | 1:1        | 0.048    | 1.140          | 0.055             |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 24.8                        | 24.31                 | 0.04             | 1        | Left                                            | Tilt          | 1             | QPSK       | 25      | 12        | 0061M                | 1:1        | 0.042    | 1.119          | 0.047             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |     |             |                 |                             |                       |                  |          | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |               |               |            |         |           |                      |            |          |                |                   |        |

**Table 11-11**  
**LTE Band 13 Head SAR**

| MEASUREMENT RESULTS                                                                               |       |        |             |                 |                             |                       |                  |          |                                                 |               |               |            |         |           |                      |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|-------|--------|-------------|-----------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------------|---------------|---------------|------------|---------|-----------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |       |        | Mode        | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Side                                            | Test Position | Antenna State | Modulation | RB Size | RB Offset | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch.   | (W/kg) |             |                 |                             |                       |                  |          |                                                 |               |               |            |         |           |                      |            | (W/kg)   |                |                   |        |
| 782.00                                                                                            | 23230 | Mid    | LTE Band 13 | 10              | 25.8                        | 25.21                 | 0.09             | 0        | Right                                           | Cheek         | 112           | QPSK       | 1       | 25        | 0122M                | 1:1        | 0.127    | 1.146          | 0.146             |        |
| 782.00                                                                                            | 23230 | Mid    | LTE Band 13 | 10              | 24.8                        | 24.28                 | 0.09             | 1        | Right                                           | Cheek         | 112           | QPSK       | 25      | 0         | 0122M                | 1:1        | 0.107    | 1.127          | 0.121             |        |
| 782.00                                                                                            | 23230 | Mid    | LTE Band 13 | 10              | 25.8                        | 25.21                 | -0.05            | 0        | Right                                           | Tilt          | 112           | QPSK       | 1       | 25        | 0122M                | 1:1        | 0.095    | 1.146          | 0.109             |        |
| 782.00                                                                                            | 23230 | Mid    | LTE Band 13 | 10              | 24.8                        | 24.28                 | -0.13            | 1        | Right                                           | Tilt          | 112           | QPSK       | 25      | 0         | 0122M                | 1:1        | 0.071    | 1.127          | 0.080             |        |
| 782.00                                                                                            | 23230 | Mid    | LTE Band 13 | 10              | 25.8                        | 25.21                 | -0.01            | 0        | Left                                            | Cheek         | 112           | QPSK       | 1       | 25        | 0122M                | 1:1        | 0.213    | 1.146          | 0.244             | A11    |
| 782.00                                                                                            | 23230 | Mid    | LTE Band 13 | 10              | 24.8                        | 24.28                 | 0.02             | 1        | Left                                            | Cheek         | 112           | QPSK       | 25      | 0         | 0122M                | 1:1        | 0.151    | 1.127          | 0.170             |        |
| 782.00                                                                                            | 23230 | Mid    | LTE Band 13 | 10              | 25.8                        | 25.21                 | 0.06             | 0        | Left                                            | Tilt          | 112           | QPSK       | 1       | 25        | 0122M                | 1:1        | 0.098    | 1.146          | 0.112             |        |
| 782.00                                                                                            | 23230 | Mid    | LTE Band 13 | 10              | 24.8                        | 24.28                 | -0.03            | 1        | Left                                            | Tilt          | 112           | QPSK       | 25      | 0         | 0122M                | 1:1        | 0.073    | 1.127          | 0.082             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |        |             |                 |                             |                       |                  |          | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |               |               |            |         |           |                      |            |          |                |                   |        |

|                                      |                                                                                                                                                                                                                             |                               |                                                                                       |                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of</small>  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                          | DUT Type:<br>Portable Handset |                                                                                       | Page 203 of 305                 |

**Table 11-12**  
**LTE Band 14 Head SAR**

| MEASUREMENT RESULTS                                                                               |       |      |                 |                             |                       |                  |          |      |                                                 |               |            |         |           |                      |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|-------|------|-----------------|-----------------------------|-----------------------|------------------|----------|------|-------------------------------------------------|---------------|------------|---------|-----------|----------------------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |       | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Side | Test Position                                   | Antenna State | Modulation | RB Size | RB Offset | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |
| MHz                                                                                               | Ch.   |      |                 |                             |                       |                  |          |      |                                                 |               |            |         |           |                      |            | (W/kg)   |                | (W/kg)            |        |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 25.8                  | 25.06            | 0.09     | 0    | Right                                           | Cheek         | 52         | QPSK    | 1         | 0                    | 0061M      | 1:1      | 0.128          | 1.186             | 0.152  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 24.8                  | 24.07            | -0.14    | 1    | Right                                           | Cheek         | 52         | QPSK    | 25        | 25                   | 0061M      | 1:1      | 0.091          | 1.183             | 0.108  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 25.8                  | 25.06            | -0.14    | 0    | Right                                           | Tilt          | 52         | QPSK    | 1         | 0                    | 0061M      | 1:1      | 0.090          | 1.186             | 0.107  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 24.8                  | 24.07            | -0.08    | 1    | Right                                           | Tilt          | 52         | QPSK    | 25        | 25                   | 0061M      | 1:1      | 0.061          | 1.183             | 0.072  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 25.8                  | 25.06            | -0.02    | 0    | Left                                            | Cheek         | 52         | QPSK    | 1         | 0                    | 0061M      | 1:1      | 0.158          | 1.186             | 0.187  | A12 |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 24.8                  | 24.07            | -0.02    | 1    | Left                                            | Cheek         | 52         | QPSK    | 25        | 25                   | 0061M      | 1:1      | 0.136          | 1.183             | 0.161  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 25.8                  | 25.06            | 0.07     | 0    | Left                                            | Tilt          | 52         | QPSK    | 1         | 0                    | 0061M      | 1:1      | 0.080          | 1.186             | 0.095  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 24.8                  | 24.07            | 0.11     | 1    | Left                                            | Tilt          | 52         | QPSK    | 25        | 25                   | 0061M      | 1:1      | 0.061          | 1.183             | 0.072  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |      |                 |                             |                       |                  |          |      | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |               |            |         |           |                      |            |          |                |                   |        |     |

**Table 11-13**  
**LTE Band 26 (Cell) Head SAR**

| MEASUREMENT RESULTS                                                                               |       |     |                    |                 |                             |                       |                  |          |       |                                                 |               |            |         |           |                      |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|-------|-----|--------------------|-----------------|-----------------------------|-----------------------|------------------|----------|-------|-------------------------------------------------|---------------|------------|---------|-----------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |       |     | Mode               | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Side  | Test Position                                   | Antenna State | Modulation | RB Size | RB Offset | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
|                                                                                                   |       |     |                    |                 |                             |                       |                  |          |       |                                                 |               |            |         |           |                      |            | (W/kg)   |                | (W/kg)            |        |
| 831.50                                                                                            | 26865 | Mid | LTE Band 26 (Cell) | 15              | 25.8                        | 25.25                 | 0.10             | 0        | Right | Cheek                                           | 66            | QPSK       | 1       | 36        | 0061M                | 1:1        | 0.111    | 1.135          | 0.126             |        |
| 831.50                                                                                            | 26865 | Mid | LTE Band 26 (Cell) | 15              | 24.8                        | 24.24                 | 0.07             | 1        | Right | Cheek                                           | 66            | QPSK       | 36      | 18        | 0061M                | 1:1        | 0.088    | 1.138          | 0.100             |        |
| 831.50                                                                                            | 26865 | Mid | LTE Band 26 (Cell) | 15              | 25.8                        | 25.25                 | 0.06             | 0        | Right | Tilt                                            | 66            | QPSK       | 1       | 36        | 0061M                | 1:1        | 0.078    | 1.135          | 0.089             |        |
| 831.50                                                                                            | 26865 | Mid | LTE Band 26 (Cell) | 15              | 24.8                        | 24.24                 | 0.15             | 1        | Right | Tilt                                            | 66            | QPSK       | 36      | 18        | 0061M                | 1:1        | 0.061    | 1.138          | 0.069             |        |
| 831.50                                                                                            | 26865 | Mid | LTE Band 26 (Cell) | 15              | 25.8                        | 25.25                 | 0.04             | 0        | Left  | Cheek                                           | 66            | QPSK       | 1       | 36        | 0061M                | 1:1        | 0.147    | 1.135          | 0.167             | A13    |
| 831.50                                                                                            | 26865 | Mid | LTE Band 26 (Cell) | 15              | 24.8                        | 24.24                 | 0.01             | 1        | Left  | Cheek                                           | 66            | QPSK       | 36      | 18        | 0061M                | 1:1        | 0.122    | 1.138          | 0.139             |        |
| 831.50                                                                                            | 26865 | Mid | LTE Band 26 (Cell) | 15              | 25.8                        | 25.25                 | -0.07            | 0        | Left  | Tilt                                            | 66            | QPSK       | 1       | 36        | 0061M                | 1:1        | 0.087    | 1.135          | 0.099             |        |
| 831.50                                                                                            | 26865 | Mid | LTE Band 26 (Cell) | 15              | 24.8                        | 24.24                 | 0.06             | 1        | Left  | Tilt                                            | 66            | QPSK       | 36      | 18        | 0061M                | 1:1        | 0.069    | 1.138          | 0.079             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |     |                    |                 |                             |                       |                  |          |       | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |               |            |         |           |                      |            |          |                |                   |        |

**Table 11-14**  
**LTE Band 5 (Cell) Head SAR**

| MEASUREMENT RESULTS                                                                               |                      |           |       |      |                    |                                   |                          |                     |          |      |                  |                                                 |            |         |           |                            |               |          |                   |                      |        |     |
|---------------------------------------------------------------------------------------------------|----------------------|-----------|-------|------|--------------------|-----------------------------------|--------------------------|---------------------|----------|------|------------------|-------------------------------------------------|------------|---------|-----------|----------------------------|---------------|----------|-------------------|----------------------|--------|-----|
| 1 CC Uplink  <br>2 CC Uplink                                                                      | Component<br>Carrier | FREQUENCY |       | Mode | Bandwidth<br>[MHz] | Maximum<br>Allowed<br>Power [dBm] | Conducted<br>Power [dBm] | Power<br>Drift [dB] | MPR [dB] | Side | Test<br>Position | Antenna<br>State                                | Modulation | RB Size | RB Offset | Device<br>Serial<br>Number | Duty<br>Cycle | SAR (1g) | Scaling<br>Factor | Reported SAR<br>(1g) | Plot # |     |
|                                                                                                   |                      | MHz       | Ch.   |      |                    |                                   |                          |                     |          |      |                  |                                                 |            |         |           |                            |               | (W/kg)   |                   | (W/kg)               |        |     |
| 1 CC Uplink                                                                                       | N/A                  | 836.50    | 20525 | Md   | LTE Band 5 (Cell)  | 10                                | 25.8                     | 25.15               | -0.04    | 0    | Right            | Cheek                                           | 66         | QPSK    | 1         | 0                          | 0086M         | 1:1      | 0.108             | 1.161                | 0.125  |     |
| 1 CC Uplink                                                                                       | N/A                  | 836.50    | 20525 | Md   | LTE Band 5 (Cell)  | 10                                | 24.8                     | 24.16               | 0.15     | 1    | Right            | Cheek                                           | 66         | QPSK    | 25        | 12                         | 0086M         | 1:1      | 0.094             | 1.159                | 0.109  |     |
| 1 CC Uplink                                                                                       | N/A                  | 836.50    | 20525 | Md   | LTE Band 5 (Cell)  | 10                                | 25.8                     | 25.15               | 0.06     | 0    | Right            | Tilt                                            | 66         | QPSK    | 1         | 0                          | 0086M         | 1:1      | 0.096             | 1.161                | 0.111  |     |
| 1 CC Uplink                                                                                       | N/A                  | 836.50    | 20525 | Md   | LTE Band 5 (Cell)  | 10                                | 24.8                     | 24.16               | -0.03    | 1    | Right            | Tilt                                            | 66         | QPSK    | 25        | 12                         | 0086M         | 1:1      | 0.078             | 1.159                | 0.090  |     |
| 1 CC Uplink                                                                                       | N/A                  | 836.50    | 20525 | Md   | LTE Band 5 (Cell)  | 10                                | 25.8                     | 25.15               | 0.10     | 0    | Left             | Cheek                                           | 66         | QPSK    | 1         | 0                          | 0086M         | 1:1      | 0.159             | 1.161                | 0.185  |     |
| 1 CC Uplink                                                                                       | N/A                  | 836.50    | 20525 | Md   | LTE Band 5 (Cell)  | 10                                | 24.8                     | 24.16               | 0.12     | 1    | Left             | Cheek                                           | 66         | QPSK    | 25        | 12                         | 0086M         | 1:1      | 0.122             | 1.159                | 0.141  |     |
| 2 CC Uplink                                                                                       | PCC                  | 836.50    | 20525 | Md   | LTE Band 5 (Cell)  | 10                                | 25.8                     | 25.35               | 0.04     | 0    | Left             | Cheek                                           | 66         | QPSK    | 1         | 0                          | 0086M         | 1:1      | 0.167             | 1.109                | 0.185  | A14 |
|                                                                                                   | SCC                  | 829.30    | 20453 | Md   | LTE Band 5 (Cell)  | 5                                 |                          |                     |          |      |                  |                                                 |            | QPSK    | 1         | 24                         |               |          |                   |                      |        |     |
| 1 CC Uplink                                                                                       | N/A                  | 836.50    | 20525 | Md   | LTE Band 5 (Cell)  | 10                                | 25.8                     | 25.15               | -0.11    | 0    | Left             | Tilt                                            | 66         | QPSK    | 1         | 0                          | 0086M         | 1:1      | 0.090             | 1.161                | 0.104  |     |
| 1 CC Uplink                                                                                       | N/A                  | 836.50    | 20525 | Md   | LTE Band 5 (Cell)  | 10                                | 24.8                     | 24.16               | 0.11     | 1    | Left             | Tilt                                            | 66         | QPSK    | 25        | 12                         | 0086M         | 1:1      | 0.074             | 1.159                | 0.086  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |                      |           |       |      |                    |                                   |                          |                     |          |      |                  | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |            |         |           |                            |               |          |                   |                      |        |     |

|                                      |                                                                                                                                                                                                               |                               |                                                                                       |                     |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------|
| FCC ID: A3LSMN986U                   | <br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>  |  | <b>Approved by:</b> |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                            | DUT Type:<br>Portable Handset |                                                                                       | Quality Manager     |
|                                      |                                                                                                                                                                                                               |                               |                                                                                       | Page 204 of 305     |

**Table 11-15**  
**LTE Band 66 (AWS) Head SAR**

| MEASUREMENT RESULTS                                                                               |                      |           |        |      |                      |                                   |                          |                     |          |      |                  |                                                 |            |         |           |                            |               |          |                   |                      |        |     |
|---------------------------------------------------------------------------------------------------|----------------------|-----------|--------|------|----------------------|-----------------------------------|--------------------------|---------------------|----------|------|------------------|-------------------------------------------------|------------|---------|-----------|----------------------------|---------------|----------|-------------------|----------------------|--------|-----|
| 1 CC Uplink  <br>2 CC Uplink                                                                      | Component<br>Carrier | FREQUENCY |        | Mode | Bandwidth<br>[MHz]   | Maximum<br>Allowed<br>Power [dBm] | Conducted<br>Power [dBm] | Power<br>Drift [dB] | MPR [dB] | Side | Test<br>Position | Antenna<br>State                                | Modulation | RB Size | RB Offset | Device<br>Serial<br>Number | Duty<br>Cycle | SAR (1g) | Scaling<br>Factor | Reported SAR<br>(1g) | Plot # |     |
|                                                                                                   |                      | MHz       | Ch.    |      |                      |                                   |                          |                     |          |      |                  |                                                 |            |         |           |                            |               | (W/kg)   |                   | (W/kg)               |        |     |
| 1 CC Uplink                                                                                       | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 24.5                     | 23.68               | -0.01    | 0    | Right            | Cheek                                           | 108        | QPSK    | 1         | 50                         | 0071M         | 1:1      | 0.119             | 1.208                | 0.144  |     |
| 1 CC Uplink                                                                                       | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 24.5                     | 23.50               | -0.12    | 0    | Right            | Cheek                                           | 108        | QPSK    | 1         | 99                         | 0071M         | 1:1      | 0.117             | 1.259                | 0.147  |     |
| 1 CC Uplink                                                                                       | N/A                  | 1715.00   | 132022 | Low  | LTE Band 66<br>(AWS) | 10                                | 24.5                     | 23.61               | 0.01     | 0    | Right            | Cheek                                           | 108        | QPSK    | 1         | 49                         | 0071M         | 1:1      | 0.110             | 1.227                | 0.135  |     |
| 1 CC Uplink                                                                                       | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 23.5                     | 22.91               | 0.08     | 1    | Right            | Cheek                                           | 108        | QPSK    | 50        | 25                         | 0071M         | 1:1      | 0.101             | 1.146                | 0.116  |     |
| 2 CC Uplink<br>CA_66C                                                                             | PCC                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 24.5                     | 24.15               | -0.13    | 0    | Right            | Cheek                                           | 108        | QPSK    | 1         | 99                         | 0071M         | 1:1      | 0.131             | 1.084                | 0.142  | A15 |
|                                                                                                   | SCC                  | 1739.80   | 132270 | Low  | LTE Band 66<br>(AWS) | 20                                |                          |                     |          |      |                  |                                                 |            | QPSK    | 1         | 0                          |               |          |                   |                      |        |     |
| 2 CC Uplink<br>CA_66B                                                                             | PCC                  | 1715.00   | 132022 | Low  | LTE Band 66<br>(AWS) | 10                                | 24.5                     | 24.13               | 0.19     | 0    | Right            | Cheek                                           | 108        | QPSK    | 1         | 49                         | 0071M         | 1:1      | 0.128             | 1.089                | 0.139  |     |
|                                                                                                   | SCC                  | 1724.90   | 132121 | Low  | LTE Band 66<br>(AWS) | 10                                |                          |                     |          |      |                  |                                                 |            | QPSK    | 1         | 0                          |               |          |                   |                      |        |     |
| 1 CC Uplink                                                                                       | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 24.5                     | 23.68               | 0.14     | 0    | Right            | Tilt                                            | 108        | QPSK    | 1         | 50                         | 0071M         | 1:1      | 0.086             | 1.208                | 0.104  |     |
| 1 CC Uplink                                                                                       | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 23.5                     | 22.91               | 0.19     | 1    | Right            | Tilt                                            | 108        | QPSK    | 50        | 25                         | 0071M         | 1:1      | 0.073             | 1.146                | 0.084  |     |
| 1 CC Uplink                                                                                       | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 24.5                     | 23.68               | 0.07     | 0    | Left             | Cheek                                           | 108        | QPSK    | 1         | 50                         | 0071M         | 1:1      | 0.102             | 1.208                | 0.123  |     |
| 1 CC Uplink                                                                                       | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 23.5                     | 22.91               | 0.11     | 1    | Left             | Cheek                                           | 108        | QPSK    | 50        | 25                         | 0071M         | 1:1      | 0.078             | 1.146                | 0.089  |     |
| 1 CC Uplink                                                                                       | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 24.5                     | 23.68               | 0.17     | 0    | Left             | Tilt                                            | 108        | QPSK    | 1         | 50                         | 0071M         | 1:1      | 0.099             | 1.208                | 0.120  |     |
| 1 CC Uplink                                                                                       | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 23.5                     | 22.91               | 0.02     | 1    | Left             | Tilt                                            | 108        | QPSK    | 50        | 25                         | 0071M         | 1:1      | 0.075             | 1.146                | 0.086  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |                      |           |        |      |                      |                                   |                          |                     |          |      |                  | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |            |         |           |                            |               |          |                   |                      |        |     |

**Table 11-16**  
**LTE Band 25 (PCS) Head SAR**

| MEASUREMENT RESULTS                      |       |     |                   |                 |                             |                       |                  |          |       |                      |               |            |         |           |                      |            |          |                |                   |        |
|------------------------------------------|-------|-----|-------------------|-----------------|-----------------------------|-----------------------|------------------|----------|-------|----------------------|---------------|------------|---------|-----------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                |       |     | Mode              | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Side  | Test Position        | Antenna State | Modulation | RB Size | RB Offset | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                      | Ch.   |     |                   |                 |                             |                       |                  |          |       |                      |               |            |         |           |                      |            | (W/kg)   |                | (W/kg)            |        |
| 1860.00                                  | 26140 | Low | LTE Band 25 (PCS) | 20              | 24.5                        | 23.75                 | 0.15             | 0        | Right | Cheek                | 109           | QPSK       | 1       | 50        | 0121M                | 1:1        | 0.111    | 1.189          | 0.132             | A16    |
| 1860.00                                  | 26140 | Low | LTE Band 25 (PCS) | 20              | 23.5                        | 22.82                 | 0.02             | 1        | Right | Cheek                | 109           | QPSK       | 50      | 0         | 0121M                | 1:1        | 0.097    | 1.169          | 0.113             |        |
| 1860.00                                  | 26140 | Low | LTE Band 25 (PCS) | 20              | 24.5                        | 23.75                 | 0.14             | 0        | Right | Tilt                 | 109           | QPSK       | 1       | 50        | 0121M                | 1:1        | 0.078    | 1.189          | 0.093             |        |
| 1860.00                                  | 26140 | Low | LTE Band 25 (PCS) | 20              | 23.5                        | 22.82                 | 0.15             | 1        | Right | Tilt                 | 109           | QPSK       | 50      | 0         | 0121M                | 1:1        | 0.059    | 1.169          | 0.069             |        |
| 1860.00                                  | 26140 | Low | LTE Band 25 (PCS) | 20              | 24.5                        | 23.75                 | 0.04             | 0        | Left  | Cheek                | 109           | QPSK       | 1       | 50        | 0121M                | 1:1        | 0.083    | 1.189          | 0.099             |        |
| 1860.00                                  | 26140 | Low | LTE Band 25 (PCS) | 20              | 23.5                        | 22.82                 | 0.08             | 1        | Left  | Cheek                | 109           | QPSK       | 50      | 0         | 0121M                | 1:1        | 0.077    | 1.169          | 0.090             |        |
| 1860.00                                  | 26140 | Low | LTE Band 25 (PCS) | 20              | 24.5                        | 23.75                 | 0.15             | 0        | Left  | Tilt                 | 109           | QPSK       | 1       | 50        | 0121M                | 1:1        | 0.074    | 1.189          | 0.088             |        |
| 1860.00                                  | 26140 | Low | LTE Band 25 (PCS) | 20              | 23.5                        | 22.82                 | 0.11             | 1        | Left  | Tilt                 | 109           | QPSK       | 50      | 0         | 0121M                | 1:1        | 0.064    | 1.169          | 0.075             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |       |     |                   |                 |                             |                       |                  |          |       | Head                 |               |            |         |           |                      |            |          |                |                   |        |
| Spatial Peak                             |       |     |                   |                 |                             |                       |                  |          |       | 1.6 W/kg (mW/g)      |               |            |         |           |                      |            |          |                |                   |        |
| Uncontrolled Exposure/General Population |       |     |                   |                 |                             |                       |                  |          |       | averaged over 1 gram |               |            |         |           |                      |            |          |                |                   |        |

**Table 11-17**  
**LTE Band 30 Head SAR**

| MEASUREMENT RESULTS                                                                               |       |      |                 |                             |                       |                  |          |      |               |                                                 |         |           |                      |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|-------|------|-----------------|-----------------------------|-----------------------|------------------|----------|------|---------------|-------------------------------------------------|---------|-----------|----------------------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |       | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Side | Test Position | Modulation                                      | RB Size | RB Offset | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |
| MHz                                                                                               | Ch.   |      |                 |                             |                       |                  |          |      |               |                                                 |         |           |                      |            | (W/kg)   |                | (W/kg)            |        |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 24.0                  | 23.58            | -0.18    | 0    | Right         | Cheek                                           | QPSK    | 1         | 49                   | 0060M      | 1:1      | 0.046          | 1.102             | 0.051  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 23.0                  | 22.63            | 0.14     | 1    | Right         | Cheek                                           | QPSK    | 25        | 12                   | 0060M      | 1:1      | 0.040          | 1.089             | 0.044  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 24.0                  | 23.58            | 0.11     | 0    | Right         | Tilt                                            | QPSK    | 1         | 49                   | 0060M      | 1:1      | 0.020          | 1.102             | 0.022  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 23.0                  | 22.63            | -0.10    | 1    | Right         | Tilt                                            | QPSK    | 25        | 12                   | 0060M      | 1:1      | 0.016          | 1.089             | 0.017  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 24.0                  | 23.58            | -0.04    | 0    | Left          | Cheek                                           | QPSK    | 1         | 49                   | 0060M      | 1:1      | 0.050          | 1.102             | 0.055  | A17 |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 23.0                  | 22.63            | 0.13     | 1    | Left          | Cheek                                           | QPSK    | 25        | 12                   | 0060M      | 1:1      | 0.039          | 1.089             | 0.042  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 24.0                  | 23.58            | -0.10    | 0    | Left          | Tilt                                            | QPSK    | 1         | 49                   | 0060M      | 1:1      | 0.029          | 1.102             | 0.032  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 23.0                  | 22.63            | 0.10     | 1    | Left          | Tilt                                            | QPSK    | 25        | 12                   | 0060M      | 1:1      | 0.027          | 1.089             | 0.029  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |      |                 |                             |                       |                  |          |      |               | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |         |           |                      |            |          |                |                   |        |     |

|                                      |                                                                                     |                               |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                  | DUT Type:<br>Portable Handset |                                                                                       | Page 205 of 305                 |

**Table 11-18**  
**LTE Band 7 Head SAR**

| MEASUREMENT RESULTS                                                                               |       |      |                 |                             |                       |                  |          |      |               |                                                 |         |           |                      |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|-------|------|-----------------|-----------------------------|-----------------------|------------------|----------|------|---------------|-------------------------------------------------|---------|-----------|----------------------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |       | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Side | Test Position | Modulation                                      | RB Size | RB Offset | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |
| MHz                                                                                               | Ch.   |      |                 |                             |                       |                  |          |      |               |                                                 |         |           |                      |            | (W/kg)   |                | (W/kg)            |        |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 24.0                  | 23.17            | -0.02    | 0    | Right         | Cheek                                           | QPSK    | 1         | 0                    | 0090M      | 1:1      | 0.106          | 1.211             | 0.128  | A18 |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 23.0                  | 22.22            | 0.13     | 1    | Right         | Cheek                                           | QPSK    | 50        | 0                    | 0090M      | 1:1      | 0.092          | 1.197             | 0.110  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 24.0                  | 23.17            | 0.19     | 0    | Right         | Tilt                                            | QPSK    | 1         | 0                    | 0090M      | 1:1      | 0.048          | 1.211             | 0.058  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 23.0                  | 22.22            | 0.04     | 1    | Right         | Tilt                                            | QPSK    | 50        | 0                    | 0090M      | 1:1      | 0.034          | 1.197             | 0.041  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 24.0                  | 23.17            | 0.16     | 0    | Left          | Cheek                                           | QPSK    | 1         | 0                    | 0090M      | 1:1      | 0.071          | 1.211             | 0.086  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 23.0                  | 22.22            | 0.12     | 1    | Left          | Cheek                                           | QPSK    | 50        | 0                    | 0090M      | 1:1      | 0.052          | 1.197             | 0.062  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 24.0                  | 23.17            | -0.02    | 0    | Left          | Tilt                                            | QPSK    | 1         | 0                    | 0090M      | 1:1      | 0.072          | 1.211             | 0.087  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 23.0                  | 22.22            | 0.07     | 1    | Left          | Tilt                                            | QPSK    | 50        | 0                    | 0090M      | 1:1      | 0.069          | 1.197             | 0.083  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |      |                 |                             |                       |                  |          |      |               | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |         |           |                      |            |          |                |                   |        |     |

**Table 11-19**  
**LTE Band 48 Head SAR**

| MEASUREMENT RESULTS                                                                               |                      |           |       |          |             |                    |                                   |                          |                     |          |       |                                                 |            |         |           |                         |               |          |                   |                      |        |
|---------------------------------------------------------------------------------------------------|----------------------|-----------|-------|----------|-------------|--------------------|-----------------------------------|--------------------------|---------------------|----------|-------|-------------------------------------------------|------------|---------|-----------|-------------------------|---------------|----------|-------------------|----------------------|--------|
| 1 CC Uplink /<br>2 CC Uplink                                                                      | Component<br>Carrier | FREQUENCY |       |          | Mode        | Bandwidth<br>[MHz] | Maximum<br>Allowed<br>Power [dBm] | Conducted<br>Power [dBm] | Power<br>Drift [dB] | MPR [dB] | Side  | Test<br>Position                                | Modulation | RB Size | RB Offset | Device Serial<br>Number | Duty<br>Cycle | SAR (1g) | Scaling<br>Factor | Reported SAR<br>(1g) | Plot # |
|                                                                                                   |                      | MHz       |       | Ch.      |             |                    |                                   |                          |                     |          |       |                                                 |            |         |           |                         |               | (W/kg)   |                   | (W/kg)               |        |
| 1 CC Uplink                                                                                       | N/A                  | 3646.70   | 56207 | Mid-High | LTE Band 48 | 20                 | 19.0                              | 18.40                    | -0.09               | 0        | Right | Cheek                                           | QPSK       | 1       | 50        | 1184M                   | 1:1.58        | 0.331    | 1.148             | 0.380                |        |
| 1 CC Uplink                                                                                       | N/A                  | 3646.70   | 56207 | Mid-High | LTE Band 48 | 20                 | 19.0                              | 18.58                    | 0.02                | 0        | Right | Cheek                                           | QPSK       | 50      | 25        | 1184M                   | 1:1.58        | 0.337    | 1.102             | 0.371                |        |
| 1 CC Uplink                                                                                       | N/A                  | 3646.70   | 56207 | Mid-High | LTE Band 48 | 20                 | 19.0                              | 18.40                    | -0.02               | 0        | Right | Tilt                                            | QPSK       | 1       | 50        | 1184M                   | 1:1.58        | 0.427    | 1.148             | 0.490                |        |
| 1 CC Uplink                                                                                       | N/A                  | 3646.70   | 56207 | Mid-High | LTE Band 48 | 20                 | 19.0                              | 18.45                    | -0.01               | 0        | Right | Tilt                                            | QPSK       | 50      | 0         | 1184M                   | 1:1.58        | 0.438    | 1.135             | 0.497                |        |
| 1 CC Uplink                                                                                       | N/A                  | 3646.70   | 56207 | Mid-High | LTE Band 48 | 20                 | 19.0                              | 18.58                    | 0.08                | 0        | Right | Tilt                                            | QPSK       | 50      | 25        | 1184M                   | 1:1.58        | 0.449    | 1.102             | 0.495                |        |
| 2 CC Uplink                                                                                       | PCC                  | 3646.70   | 56207 | Mid-High | LTE Band 48 | 20                 | 19.0                              | 18.77                    | 0.06                | 0        | Right | Tilt                                            | QPSK       | 50      | 0         | 1184M                   | 1:1.58        | 0.479    | 1.054             | 0.505                | A19    |
|                                                                                                   | SCC                  | 3626.90   | 56009 | Mid-High | LTE Band 48 | 20                 |                                   |                          |                     |          |       |                                                 | QPSK       | 50      | 50        |                         |               |          |                   |                      |        |
| 1 CC Uplink                                                                                       | N/A                  | 3646.70   | 56207 | Mid-High | LTE Band 48 | 20                 | 19.0                              | 18.40                    | 0.02                | 0        | Left  | Cheek                                           | QPSK       | 1       | 50        | 1184M                   | 1:1.58        | 0.094    | 1.148             | 0.108                |        |
| 1 CC Uplink                                                                                       | N/A                  | 3646.70   | 56207 | Mid-High | LTE Band 48 | 20                 | 19.0                              | 18.58                    | 0.16                | 0        | Left  | Cheek                                           | QPSK       | 50      | 25        | 1184M                   | 1:1.58        | 0.097    | 1.102             | 0.107                |        |
| 1 CC Uplink                                                                                       | N/A                  | 3646.70   | 56207 | Mid-High | LTE Band 48 | 20                 | 19.0                              | 18.40                    | -0.03               | 0        | Left  | Tilt                                            | QPSK       | 1       | 50        | 1184M                   | 1:1.58        | 0.106    | 1.148             | 0.122                |        |
| 1 CC Uplink                                                                                       | N/A                  | 3646.70   | 56207 | Mid-High | LTE Band 48 | 20                 | 19.0                              | 18.58                    | 0.13                | 0        | Left  | Tilt                                            | QPSK       | 50      | 25        | 1184M                   | 1:1.58        | 0.105    | 1.102             | 0.116                |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |                      |           |       |          |             |                    |                                   |                          |                     |          |       | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |            |         |           |                         |               |          |                   |                      |        |

**Table 11-20**  
**LTE Band 41 Head SAR**

| MEASUREMENT RESULTS                                                                               |                      |           |       |      |                    |                                   |                          |                     |          |      |                  |                                                 |         |           |                            |               |          |                   |                      |        |     |
|---------------------------------------------------------------------------------------------------|----------------------|-----------|-------|------|--------------------|-----------------------------------|--------------------------|---------------------|----------|------|------------------|-------------------------------------------------|---------|-----------|----------------------------|---------------|----------|-------------------|----------------------|--------|-----|
| 1 CC Uplink   2 CC Uplink,<br>Power Class                                                         | Component<br>Carrier | FREQUENCY |       | Mode | Bandwidth<br>[MHz] | Maximum<br>Allowed<br>Power [dBm] | Conducted<br>Power [dBm] | Power<br>Drift [dB] | MPR [dB] | Side | Test<br>Position | Modulation                                      | RB Size | RB Offset | Device<br>Serial<br>Number | Duty<br>Cycle | SAR (1g) | Scaling<br>Factor | Reported SAR<br>(1g) | Plot # |     |
|                                                                                                   |                      | MHz       | Ch.   |      |                    |                                   |                          |                     |          |      |                  |                                                 |         |           |                            |               | (W/kg)   |                   | (W/kg)               |        |     |
| 1 CC Uplink - Power Class<br>3                                                                    | N/A                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 25.0                     | 24.11               | 0.21     | 0    | Right            | Cheek                                           | QPSK    | 1         | 99                         | 0085M         | 1:1.58   | 0.052             | 1.227                | 0.064  |     |
| 1 CC Uplink - Power Class<br>3                                                                    | N/A                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 24.0                     | 23.23               | 0.08     | 1    | Right            | Cheek                                           | QPSK    | 50        | 25                         | 0085M         | 1:1.58   | 0.043             | 1.194                | 0.051  |     |
| 1 CC Uplink - Power Class<br>3                                                                    | N/A                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 25.0                     | 24.11               | 0.19     | 0    | Right            | Tilt                                            | QPSK    | 1         | 99                         | 0085M         | 1:1.58   | 0.028             | 1.227                | 0.034  |     |
| 1 CC Uplink - Power Class<br>3                                                                    | N/A                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 24.0                     | 23.23               | -0.20    | 1    | Right            | Tilt                                            | QPSK    | 50        | 25                         | 0085M         | 1:1.58   | 0.021             | 1.194                | 0.025  |     |
| 1 CC Uplink - Power Class<br>3                                                                    | N/A                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 25.0                     | 24.11               | 0.15     | 0    | Left             | Cheek                                           | QPSK    | 1         | 99                         | 0085M         | 1:1.58   | 0.055             | 1.227                | 0.067  |     |
| 1 CC Uplink - Power Class<br>3                                                                    | N/A                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 24.0                     | 23.23               | 0.17     | 1    | Left             | Cheek                                           | QPSK    | 50        | 25                         | 0085M         | 1:1.58   | 0.040             | 1.194                | 0.048  |     |
| 1 CC Uplink - Power Class<br>2                                                                    | N/A                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 27.5                     | 26.72               | 0.17     | 0    | Left             | Cheek                                           | QPSK    | 1         | 99                         | 0085M         | 1:2.31   | 0.073             | 1.197                | 0.087  |     |
| 2 CC Uplink - Power Class<br>3                                                                    | PCC                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 25.0                     | 24.41               | 0.13     | 0    | Left             | Cheek                                           | QPSK    | 1         | 99                         | 0085M         | 1:1.58   | 0.056             | 1.146                | 0.064  |     |
|                                                                                                   | SCC                  | 2525.80   | 39948 | Low  | LTE Band 41        | 20                                |                          |                     |          |      |                  |                                                 | QPSK    | 1         | 0                          | 0085M         |          |                   |                      |        |     |
| 2 CC Uplink - Power Class<br>2                                                                    | PCC                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 27.5                     | 27.15               | 0.21     | 0    | Left             | Cheek                                           | QPSK    | 1         | 99                         | 0085M         | 1:2.31   | 0.077             | 1.084                | 0.083  | A20 |
|                                                                                                   | SCC                  | 2525.80   | 39948 | Low  | LTE Band 41        | 20                                |                          |                     |          |      |                  |                                                 | QPSK    | 1         | 0                          | 0085M         |          |                   |                      |        |     |
| 1 CC Uplink - Power Class<br>3                                                                    | N/A                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 25.0                     | 24.11               | 0.17     | 0    | Left             | Tilt                                            | QPSK    | 1         | 99                         | 0085M         | 1:1.58   | 0.048             | 1.227                | 0.059  |     |
| 1 CC Uplink - Power Class<br>3                                                                    | N/A                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 24.0                     | 23.23               | 0.15     | 1    | Left             | Tilt                                            | QPSK    | 50        | 25                         | 0085M         | 1:1.58   | 0.041             | 1.194                | 0.049  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |                      |           |       |      |                    |                                   |                          |                     |          |      |                  | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |         |           |                            |               |          |                   |                      |        |     |

|                                      |                                                                                                                                  |                               |                                                                                       |                                 |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  PCTEST<br>Proud to be part of the ROHM group | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                               | DUT Type:<br>Portable Handset |                                                                                       | Page 206 of 305                 |

**Table 11-21**  
**NR Band n71 Head SAR**

| MEASUREMENT RESULTS                                                                               |        |        |             |                 |                             |                       |                  |          |       |                                                 |               |                 |         |           |                      |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|--------|--------|-------------|-----------------|-----------------------------|-----------------------|------------------|----------|-------|-------------------------------------------------|---------------|-----------------|---------|-----------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |        |        | Mode        | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Side  | Test Position                                   | Antenna State | Modulation      | RB Size | RB Offset | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch.    | (W/kg) |             |                 |                             |                       |                  |          |       |                                                 |               |                 |         |           |                      |            | (W/kg)   |                |                   |        |
| 680.50                                                                                            | 136100 | Mid    | NR Band n71 | 20              | 25.5                        | 25.05                 | -0.02            | 0        | Right | Cheek                                           | 19            | DFT-S-OFDM QPSK | 1       | 53        | 0070M                | 1:1        | 0.083    | 1.109          | 0.092             |        |
| 680.50                                                                                            | 136100 | Mid    | NR Band n71 | 20              | 25.5                        | 24.66                 | 0.10             | 0        | Right | Cheek                                           | 19            | DFT-S-OFDM QPSK | 50      | 28        | 0070M                | 1:1        | 0.083    | 1.213          | 0.101             |        |
| 680.50                                                                                            | 136100 | Mid    | NR Band n71 | 20              | 25.5                        | 25.05                 | 0.10             | 0        | Right | Tilt                                            | 19            | DFT-S-OFDM QPSK | 1       | 53        | 0070M                | 1:1        | 0.043    | 1.109          | 0.048             |        |
| 680.50                                                                                            | 136100 | Mid    | NR Band n71 | 20              | 25.5                        | 24.66                 | 0.10             | 0        | Right | Tilt                                            | 19            | DFT-S-OFDM QPSK | 50      | 28        | 0070M                | 1:1        | 0.046    | 1.213          | 0.056             |        |
| 680.50                                                                                            | 136100 | Mid    | NR Band n71 | 20              | 25.5                        | 25.05                 | 0.10             | 0        | Left  | Cheek                                           | 19            | DFT-S-OFDM QPSK | 1       | 53        | 0070M                | 1:1        | 0.112    | 1.109          | 0.124             | A21    |
| 680.50                                                                                            | 136100 | Mid    | NR Band n71 | 20              | 25.5                        | 24.66                 | 0.06             | 0        | Left  | Cheek                                           | 19            | DFT-S-OFDM QPSK | 50      | 28        | 0070M                | 1:1        | 0.105    | 1.213          | 0.127             |        |
| 680.50                                                                                            | 136100 | Mid    | NR Band n71 | 20              | 24.0                        | 23.41                 | 0.16             | 1.5      | Left  | Cheek                                           | 19            | CP-OFDM QPSK    | 1       | 1         | 0070M                | 1:1        | 0.068    | 1.146          | 0.078             |        |
| 680.50                                                                                            | 136100 | Mid    | NR Band n71 | 20              | 25.5                        | 25.05                 | 0.05             | 0        | Left  | Tilt                                            | 19            | DFT-S-OFDM QPSK | 1       | 53        | 0070M                | 1:1        | 0.049    | 1.109          | 0.054             |        |
| 680.50                                                                                            | 136100 | Mid    | NR Band n71 | 20              | 25.5                        | 24.66                 | 0.12             | 0        | Left  | Tilt                                            | 19            | DFT-S-OFDM QPSK | 50      | 28        | 0070M                | 1:1        | 0.047    | 1.213          | 0.057             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |        |        |             |                 |                             |                       |                  |          |       | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |               |                 |         |           |                      |            |          |                |                   |        |

**Table 11-22**  
**NR Band n12 Head SAR**

| MEASUREMENT RESULTS                                                                               |        |      |                 |                             |                       |                  |          |      |                                                 |               |            |                 |           |                      |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|--------|------|-----------------|-----------------------------|-----------------------|------------------|----------|------|-------------------------------------------------|---------------|------------|-----------------|-----------|----------------------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |        | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Side | Test Position                                   | Antenna State | Modulation | RB Size         | RB Offset | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |
| MHz                                                                                               | Ch.    |      |                 |                             |                       |                  |          |      |                                                 |               |            |                 |           |                      |            | (W/kg)   |                | (W/kg)            |        |     |
| 707.50                                                                                            | 141500 | Mid  | NR Band n12     | 15                          | 25.5                  | 24.78            | 0.08     | 0    | Right                                           | Cheek         | 1          | DFT-S-OFDM QPSK | 1         | 77                   | 0095M      | 1:1      | 0.080          | 1.180             | 0.094  |     |
| 707.50                                                                                            | 141500 | Mid  | NR Band n12     | 15                          | 25.5                  | 24.54            | 0.12     | 0    | Right                                           | Cheek         | 1          | DFT-S-OFDM QPSK | 36        | 22                   | 0095M      | 1:1      | 0.095          | 1.247             | 0.118  |     |
| 707.50                                                                                            | 141500 | Mid  | NR Band n12     | 15                          | 25.5                  | 24.78            | 0.13     | 0    | Right                                           | Tilt          | 1          | DFT-S-OFDM QPSK | 1         | 77                   | 0095M      | 1:1      | 0.041          | 1.180             | 0.048  |     |
| 707.50                                                                                            | 141500 | Mid  | NR Band n12     | 15                          | 25.5                  | 24.54            | 0.14     | 0    | Right                                           | Tilt          | 1          | DFT-S-OFDM QPSK | 36        | 22                   | 0095M      | 1:1      | 0.051          | 1.247             | 0.064  |     |
| 707.50                                                                                            | 141500 | Mid  | NR Band n12     | 15                          | 25.5                  | 24.78            | 0.13     | 0    | Left                                            | Cheek         | 1          | DFT-S-OFDM QPSK | 1         | 77                   | 0095M      | 1:1      | 0.110          | 1.180             | 0.130  | A22 |
| 707.50                                                                                            | 141500 | Mid  | NR Band n12     | 15                          | 25.5                  | 24.54            | 0.08     | 0    | Left                                            | Cheek         | 1          | DFT-S-OFDM QPSK | 36        | 22                   | 0095M      | 1:1      | 0.104          | 1.247             | 0.130  |     |
| 707.50                                                                                            | 141500 | Mid  | NR Band n12     | 15                          | 24.0                  | 22.95            | 0.12     | 1.5  | Left                                            | Cheek         | 1          | CP-OFDM QPSK    | 1         | 1                    | 0095M      | 1:1      | 0.053          | 1.274             | 0.068  |     |
| 707.50                                                                                            | 141500 | Mid  | NR Band n12     | 15                          | 25.5                  | 24.78            | 0.16     | 0    | Left                                            | Tilt          | 1          | DFT-S-OFDM QPSK | 1         | 77                   | 0095M      | 1:1      | 0.043          | 1.180             | 0.051  |     |
| 707.50                                                                                            | 141500 | Mid  | NR Band n12     | 15                          | 25.5                  | 24.54            | 0.15     | 0    | Left                                            | Tilt          | 1          | DFT-S-OFDM QPSK | 36        | 22                   | 0095M      | 1:1      | 0.048          | 1.247             | 0.060  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |        |      |                 |                             |                       |                  |          |      | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |               |            |                 |           |                      |            |          |                |                   |        |     |

**Table 11-23**  
**NR Band n5 Head SAR**

| MEASUREMENT RESULTS                      |        |      |                   |                             |                       |                  |          |      |                      |               |            |                 |           |                      |            |          |                |                   |        |     |
|------------------------------------------|--------|------|-------------------|-----------------------------|-----------------------|------------------|----------|------|----------------------|---------------|------------|-----------------|-----------|----------------------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                |        | Mode | Bandwidth [MHz]   | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Side | Test Position        | Antenna State | Modulation | RB Size         | RB Offset | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |
| MHz                                      | Ch.    |      |                   |                             |                       |                  |          |      |                      |               |            |                 |           |                      |            | (W/kg)   |                | (W/kg)            |        |     |
| 836.50                                   | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 25.5                  | 25.06            | 0.03     | 0    | Right                | Cheek         | 66         | DFT-S-OFDM QPSK | 1         | 53                   | 0089M      | 1:1      | 0.111          | 1.107             | 0.123  |     |
| 836.50                                   | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 25.5                  | 24.67            | 0.12     | 0    | Right                | Cheek         | 66         | DFT-S-OFDM QPSK | 50        | 28                   | 0089M      | 1:1      | 0.107          | 1.211             | 0.130  |     |
| 836.50                                   | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 25.5                  | 25.06            | 0.12     | 0    | Right                | Tilt          | 66         | DFT-S-OFDM QPSK | 1         | 53                   | 0089M      | 1:1      | 0.090          | 1.107             | 0.100  |     |
| 836.50                                   | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 25.5                  | 24.67            | 0.10     | 0    | Right                | Tilt          | 66         | DFT-S-OFDM QPSK | 50        | 28                   | 0089M      | 1:1      | 0.082          | 1.211             | 0.099  |     |
| 836.50                                   | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 25.5                  | 25.06            | 0.12     | 0    | Left                 | Cheek         | 66         | DFT-S-OFDM QPSK | 1         | 53                   | 0089M      | 1:1      | 0.161          | 1.107             | 0.178  | A23 |
| 836.50                                   | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 25.5                  | 24.67            | 0.04     | 0    | Left                 | Cheek         | 66         | DFT-S-OFDM QPSK | 50        | 28                   | 0089M      | 1:1      | 0.149          | 1.211             | 0.180  |     |
| 836.50                                   | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 24.0                  | 23.04            | -0.14    | 1.5  | Left                 | Cheek         | 66         | CP-OFDM QPSK    | 1         | 1                    | 0089M      | 1:1      | 0.104          | 1.247             | 0.130  |     |
| 836.50                                   | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 25.5                  | 25.06            | 0.03     | 0    | Left                 | Tilt          | 66         | DFT-S-OFDM QPSK | 1         | 53                   | 0089M      | 1:1      | 0.086          | 1.107             | 0.095  |     |
| 836.50                                   | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 25.5                  | 24.67            | 0.06     | 0    | Left                 | Tilt          | 66         | DFT-S-OFDM QPSK | 50        | 28                   | 0089M      | 1:1      | 0.087          | 1.211             | 0.105  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |        |      |                   |                             |                       |                  |          |      | Head                 |               |            |                 |           |                      |            |          |                |                   |        |     |
| Spatial Peak                             |        |      |                   |                             |                       |                  |          |      | 1.6 W/kg (mW/g)      |               |            |                 |           |                      |            |          |                |                   |        |     |
| Uncontrolled Exposure/General Population |        |      |                   |                             |                       |                  |          |      | averaged over 1 gram |               |            |                 |           |                      |            |          |                |                   |        |     |

|                                             |                                                                                     |                                      |                                                                                       |                                        |
|---------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                           | <b>DUT Type:</b><br>Portable Handset | Page 207 of 305                                                                       |                                        |

**Table 11-24**  
**NR Band n66 Head SAR**

| MEASUREMENT RESULTS                                                                               |        |     |                   |                 |                             |                       |                  |          |       |                                                 |               |                 |         |           |                      |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|--------|-----|-------------------|-----------------|-----------------------------|-----------------------|------------------|----------|-------|-------------------------------------------------|---------------|-----------------|---------|-----------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |        |     | Mode              | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Side  | Test Position                                   | Antenna State | Modulation      | RB Size | RB Offset | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch.    |     |                   |                 |                             |                       |                  |          |       |                                                 |               |                 |         |           |                      |            | (W/kg)   |                | (W/kg)            |        |
| 1720.00                                                                                           | 344000 | Low | NR Band n66 (AWS) | 20              | 24.5                        | 23.93                 | 0.14             | 0        | Right | Cheek                                           | 108           | DFT-S-OFDM QPSK | 1       | 53        | 0066M                | 1:1        | 0.120    | 1.140          | 0.137             | A24    |
| 1720.00                                                                                           | 344000 | Low | NR Band n66 (AWS) | 20              | 24.5                        | 23.67                 | 0.21             | 0        | Right | Cheek                                           | 108           | DFT-S-OFDM QPSK | 50      | 28        | 0066M                | 1:1        | 0.120    | 1.211          | 0.145             |        |
| 1745.00                                                                                           | 349000 | Md  | NR Band n66 (AWS) | 20              | 23.0                        | 22.12                 | 0.20             | 1.5      | Right | Cheek                                           | 108           | CP-OFDM QPSK    | 1       | 1         | 0066M                | 1:1        | 0.077    | 1.225          | 0.094             |        |
| 1720.00                                                                                           | 344000 | Low | NR Band n66 (AWS) | 20              | 24.5                        | 23.93                 | 0.16             | 0        | Right | Tilt                                            | 108           | DFT-S-OFDM QPSK | 1       | 53        | 0066M                | 1:1        | 0.091    | 1.140          | 0.104             |        |
| 1720.00                                                                                           | 344000 | Low | NR Band n66 (AWS) | 20              | 24.5                        | 23.67                 | 0.15             | 0        | Right | Tilt                                            | 108           | DFT-S-OFDM QPSK | 50      | 28        | 0066M                | 1:1        | 0.085    | 1.211          | 0.103             |        |
| 1720.00                                                                                           | 344000 | Low | NR Band n66 (AWS) | 20              | 24.5                        | 23.93                 | 0.19             | 0        | Left  | Cheek                                           | 108           | DFT-S-OFDM QPSK | 1       | 53        | 0066M                | 1:1        | 0.107    | 1.140          | 0.122             |        |
| 1720.00                                                                                           | 344000 | Low | NR Band n66 (AWS) | 20              | 24.5                        | 23.67                 | 0.17             | 0        | Left  | Cheek                                           | 108           | DFT-S-OFDM QPSK | 50      | 28        | 0066M                | 1:1        | 0.098    | 1.211          | 0.119             |        |
| 1720.00                                                                                           | 344000 | Low | NR Band n66 (AWS) | 20              | 24.5                        | 23.93                 | 0.18             | 0        | Left  | Tilt                                            | 108           | DFT-S-OFDM QPSK | 1       | 53        | 0066M                | 1:1        | 0.097    | 1.140          | 0.111             |        |
| 1720.00                                                                                           | 344000 | Low | NR Band n66 (AWS) | 20              | 24.5                        | 23.67                 | 0.15             | 0        | Left  | Tilt                                            | 108           | DFT-S-OFDM QPSK | 50      | 28        | 0066M                | 1:1        | 0.089    | 1.211          | 0.108             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |        |     |                   |                 |                             |                       |                  |          |       | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |               |                 |         |           |                      |            |          |                |                   |        |

**Table 11-25**  
**NR Band n25 Head SAR**

| MEASUREMENT RESULTS                                                                               |        |      |                   |                 |                             |                       |                  |          |       |                                                 |               |                 |         |           |                      |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|--------|------|-------------------|-----------------|-----------------------------|-----------------------|------------------|----------|-------|-------------------------------------------------|---------------|-----------------|---------|-----------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |        |      | Mode              | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Side  | Test Position                                   | Antenna State | Modulation      | RB Size | RB Offset | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
|                                                                                                   |        |      |                   |                 |                             |                       |                  |          |       |                                                 |               |                 |         |           |                      |            | (W/kg)   |                | (W/kg)            |        |
| 1905.00                                                                                           | 381000 | High | NR Band n25 (PCS) | 20              | 24.5                        | 23.91                 | 0.13             | 0        | Right | Cheek                                           | 109           | DFT-S-OFDM QPSK | 1       | 53        | 0065M                | 1:1        | 0.124    | 1.146          | 0.142             | A25    |
| 1905.00                                                                                           | 381000 | High | NR Band n25 (PCS) | 20              | 24.5                        | 23.91                 | 0.18             | 0        | Right | Cheek                                           | 109           | DFT-S-OFDM QPSK | 50      | 28        | 0065M                | 1:1        | 0.129    | 1.146          | 0.148             |        |
| 1905.00                                                                                           | 381000 | High | NR Band n25 (PCS) | 20              | 23.0                        | 22.31                 | 0.21             | 1.5      | Right | Cheek                                           | 109           | CP-OFDM QPSK    | 1       | 1         | 0065M                | 1:1        | 0.090    | 1.172          | 0.105             |        |
| 1905.00                                                                                           | 381000 | High | NR Band n25 (PCS) | 20              | 24.5                        | 23.91                 | 0.10             | 0        | Right | Tilt                                            | 109           | DFT-S-OFDM QPSK | 1       | 53        | 0065M                | 1:1        | 0.058    | 1.146          | 0.066             |        |
| 1905.00                                                                                           | 381000 | High | NR Band n25 (PCS) | 20              | 24.5                        | 23.91                 | 0.10             | 0        | Right | Tilt                                            | 109           | DFT-S-OFDM QPSK | 50      | 28        | 0065M                | 1:1        | 0.051    | 1.146          | 0.058             |        |
| 1905.00                                                                                           | 381000 | High | NR Band n25 (PCS) | 20              | 24.5                        | 23.91                 | 0.15             | 0        | Left  | Cheek                                           | 109           | DFT-S-OFDM QPSK | 1       | 53        | 0065M                | 1:1        | 0.099    | 1.146          | 0.113             |        |
| 1905.00                                                                                           | 381000 | High | NR Band n25 (PCS) | 20              | 24.5                        | 23.91                 | 0.02             | 0        | Left  | Cheek                                           | 109           | DFT-S-OFDM QPSK | 50      | 28        | 0065M                | 1:1        | 0.091    | 1.146          | 0.104             |        |
| 1905.00                                                                                           | 381000 | High | NR Band n25 (PCS) | 20              | 24.5                        | 23.91                 | 0.17             | 0        | Left  | Tilt                                            | 109           | DFT-S-OFDM QPSK | 1       | 53        | 0065M                | 1:1        | 0.101    | 1.146          | 0.116             |        |
| 1905.00                                                                                           | 381000 | High | NR Band n25 (PCS) | 20              | 24.5                        | 23.91                 | 0.19             | 0        | Left  | Tilt                                            | 109           | DFT-S-OFDM QPSK | 50      | 28        | 0065M                | 1:1        | 0.098    | 1.146          | 0.112             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |        |      |                   |                 |                             |                       |                  |          |       | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |               |                 |         |           |                      |            |          |                |                   |        |

|                                      |                                                                                                                                                                                                                                                                                                                                                                          |                               |                                 |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   | <div><b>PCTEST</b><br/><small>Proud to be part of</small> </div> <div>SAR EVALUATION REPORT</div> <div></div> |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01_A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                                                                                                       | DUT Type:<br>Portable Handset | Page 208 of 305                 |



**Table 11-26**  
**NR Band n41 Head SAR**

| MEASUREMENT RESULTS                      |        |     |             |                 |                             |                       |                  |          |       |                      |                 |         |           |                      |            |          |                |                   |        |
|------------------------------------------|--------|-----|-------------|-----------------|-----------------------------|-----------------------|------------------|----------|-------|----------------------|-----------------|---------|-----------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                |        |     | Mode        | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Side  | Test Position        | Modulation      | RB Size | RB Offset | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                      | Ch.    |     |             |                 |                             |                       |                  |          |       |                      |                 |         |           |                      |            | (W/kg)   |                | (W/kg)            |        |
| 2592.99                                  | 518598 | Mid | NR Band n41 | 100             | 23.5                        | 22.91                 | -0.03            | 0        | Right | Cheek                | DFT-S-OFDM QPSK | 1       | 1         | 1187M                | 1.4        | 0.511    | 1.146          | 0.586             |        |
| 2592.99                                  | 518598 | Mid | NR Band n41 | 100             | 23.5                        | 22.87                 | 0.03             | 0        | Right | Cheek                | DFT-S-OFDM QPSK | 135     | 0         | 1187M                | 1.4        | 0.467    | 1.156          | 0.540             |        |
| 2592.99                                  | 518598 | Mid | NR Band n41 | 100             | 23.5                        | 22.91                 | -0.07            | 0        | Right | Tilt                 | DFT-S-OFDM QPSK | 1       | 1         | 1187M                | 1.4        | 0.682    | 1.146          | 0.782             | A6     |
| 2592.99                                  | 518598 | Mid | NR Band n41 | 100             | 23.5                        | 22.87                 | -0.03            | 0        | Right | Tilt                 | DFT-S-OFDM QPSK | 135     | 0         | 1187M                | 1.4        | 0.580    | 1.156          | 0.670             |        |
| 2592.99                                  | 518598 | Mid | NR Band n41 | 100             | 23.5                        | 22.87                 | 0.02             | 0        | Right | Tilt                 | CP-OFDM QPSK    | 1       | 1         | 1187M                | 1.4        | 0.501    | 1.156          | 0.579             |        |
| 2592.99                                  | 518598 | Mid | NR Band n41 | 100             | 23.5                        | 22.82                 | -0.13            | 0        | Right | Tilt                 | DFT-S-OFDM QPSK | 270     | 0         | 1187M                | 1.4        | 0.590    | 1.169          | 0.690             |        |
| 2592.99                                  | 518598 | Mid | NR Band n41 | 100             | 23.5                        | 22.91                 | 0.10             | 0        | Left  | Cheek                | DFT-S-OFDM QPSK | 1       | 1         | 1187M                | 1.4        | 0.547    | 1.146          | 0.627             |        |
| 2592.99                                  | 518598 | Mid | NR Band n41 | 100             | 23.5                        | 22.87                 | 0.05             | 0        | Left  | Cheek                | DFT-S-OFDM QPSK | 135     | 0         | 1187M                | 1.4        | 0.487    | 1.156          | 0.563             |        |
| 2592.99                                  | 518598 | Mid | NR Band n41 | 100             | 23.5                        | 22.82                 | 0.13             | 0        | Left  | Cheek                | DFT-S-OFDM QPSK | 270     | 0         | 1187M                | 1.4        | 0.477    | 1.169          | 0.558             |        |
| 2592.99                                  | 518598 | Mid | NR Band n41 | 100             | 23.5                        | 22.91                 | -0.02            | 0        | Left  | Tilt                 | DFT-S-OFDM QPSK | 1       | 1         | 1187M                | 1.4        | 0.627    | 1.146          | 0.719             |        |
| 2592.99                                  | 518598 | Mid | NR Band n41 | 100             | 23.5                        | 22.87                 | 0.05             | 0        | Left  | Tilt                 | DFT-S-OFDM QPSK | 135     | 0         | 1187M                | 1.4        | 0.609    | 1.156          | 0.704             |        |
| 2592.99                                  | 518598 | Mid | NR Band n41 | 100             | 23.5                        | 22.82                 | -0.01            | 0        | Left  | Tilt                 | DFT-S-OFDM QPSK | 270     | 0         | 1187M                | 1.4        | 0.518    | 1.169          | 0.606             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |        |     |             |                 |                             |                       |                  |          |       | Head                 |                 |         |           |                      |            |          |                |                   |        |
| Spatial Peak                             |        |     |             |                 |                             |                       |                  |          |       | 1.6 W/kg (mW/g)      |                 |         |           |                      |            |          |                |                   |        |
| Uncontrolled Exposure/General Population |        |     |             |                 |                             |                       |                  |          |       | averaged over 1 gram |                 |         |           |                      |            |          |                |                   |        |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 209 of 305                                                                       |                                        |

**Table 11-27  
DTS Head SISO SAR**

| MEASUREMENT RESULTS                                                                               |     |         |         |                 |                             |                       |                  |       |                                                 |                 |                      |                  |                |                       |          |                        |                             |                   |        |
|---------------------------------------------------------------------------------------------------|-----|---------|---------|-----------------|-----------------------------|-----------------------|------------------|-------|-------------------------------------------------|-----------------|----------------------|------------------|----------------|-----------------------|----------|------------------------|-----------------------------|-------------------|--------|
| FREQUENCY                                                                                         |     | Mode    | Service | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Side  | Test Position                                   | Antenna Config. | Device Serial Number | Data Rate (Mbps) | Duty Cycle (%) | Peak SAR of Area Scan | SAR (1g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch. |         |         |                 |                             |                       |                  |       |                                                 |                 |                      |                  |                | W/kg                  | (W/kg)   |                        |                             | (W/kg)            |        |
| 2412                                                                                              | 1   | 802.11b | DSSS    | 22              | 16.0                        | 15.99                 | 0.16             | Right | Cheek                                           | 1               | 0704M                | 1                | 99.9           | 0.605                 | -        | 1.002                  | 1.001                       | -                 |        |
| 2412                                                                                              | 1   | 802.11b | DSSS    | 22              | 16.0                        | 15.99                 | 0.10             | Right | Tilt                                            | 1               | 0704M                | 1                | 99.9           | 1.099                 | 0.650    | 1.002                  | 1.001                       | 0.652             |        |
| 2437                                                                                              | 6   | 802.11b | DSSS    | 22              | 16.0                        | 15.76                 | 0.14             | Right | Tilt                                            | 1               | 0704M                | 1                | 99.9           | 1.458                 | 0.786    | 1.057                  | 1.001                       | 0.832             | A27    |
| 2462                                                                                              | 11  | 802.11b | DSSS    | 22              | 16.0                        | 15.15                 | 0.19             | Right | Tilt                                            | 1               | 0704M                | 1                | 99.9           | 1.001                 | 0.568    | 1.216                  | 1.001                       | 0.691             |        |
| 2412                                                                                              | 1   | 802.11b | DSSS    | 22              | 16.0                        | 15.99                 | 0.15             | Left  | Cheek                                           | 1               | 0704M                | 1                | 99.9           | 0.674                 | -        | 1.002                  | 1.001                       | -                 |        |
| 2412                                                                                              | 1   | 802.11b | DSSS    | 22              | 16.0                        | 15.99                 | 0.20             | Left  | Tilt                                            | 1               | 0704M                | 1                | 99.9           | 0.806                 | 0.465    | 1.002                  | 1.001                       | 0.466             |        |
| 2437                                                                                              | 6   | 802.11b | DSSS    | 22              | 16.0                        | 15.98                 | 0.19             | Right | Cheek                                           | 2               | 0704M                | 1                | 99.0           | 0.014                 | -        | 1.005                  | 1.010                       | -                 |        |
| 2437                                                                                              | 6   | 802.11b | DSSS    | 22              | 16.0                        | 15.98                 | 0.19             | Right | Tilt                                            | 2               | 0704M                | 1                | 99.0           | 0.020                 | -        | 1.005                  | 1.010                       | -                 |        |
| 2437                                                                                              | 6   | 802.11b | DSSS    | 22              | 16.0                        | 15.98                 | 0.19             | Left  | Cheek                                           | 2               | 0704M                | 1                | 99.0           | 0.021                 | -        | 1.005                  | 1.010                       | -                 |        |
| 2437                                                                                              | 6   | 802.11b | DSSS    | 22              | 16.0                        | 15.98                 | 0.21             | Left  | Tilt                                            | 2               | 0704M                | 1                | 99.0           | 0.037                 | 0.024    | 1.005                  | 1.010                       | 0.024             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |     |         |         |                 |                             |                       |                  |       | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                 |                      |                  |                |                       |          |                        |                             |                   |        |

**Table 11-28  
NII SISO Head SAR**

| MEASUREMENT RESULTS                      |     |          |         |                 |                             |                       |                  |       |                                         |                 |                      |                  |                |                       |          |                        |                             |                   |        |
|------------------------------------------|-----|----------|---------|-----------------|-----------------------------|-----------------------|------------------|-------|-----------------------------------------|-----------------|----------------------|------------------|----------------|-----------------------|----------|------------------------|-----------------------------|-------------------|--------|
| FREQUENCY                                |     | Mode     | Service | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Side  | Test Position                           | Antenna Config. | Device Serial Number | Data Rate (Mbps) | Duty Cycle (%) | Peak SAR of Area Scan | SAR (1g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (1g) | Plot # |
| MHz                                      | Ch. |          |         |                 |                             |                       |                  |       |                                         |                 |                      |                  |                | W/kg                  | (W/kg)   |                        |                             | (W/kg)            |        |
| 5290                                     | 58  | 802.11ac | OFDM    | 80              | 13.0                        | 12.97                 | 0.00             | Right | Cheek                                   | 1               | 0704M                | 29.3             | 93.9           | 0.064                 | 0.021    | 1.007                  | 1.065                       | 0.023             |        |
| 5290                                     | 58  | 802.11ac | OFDM    | 80              | 13.0                        | 12.97                 | 0.00             | Right | Tilt                                    | 1               | 0704M                | 29.3             | 93.9           | 0.042                 | -        | 1.007                  | 1.065                       | -                 |        |
| 5290                                     | 58  | 802.11ac | OFDM    | 80              | 13.0                        | 12.97                 | 0.00             | Left  | Cheek                                   | 1               | 0704M                | 29.3             | 93.9           | 0.009                 | -        | 1.007                  | 1.065                       | -                 |        |
| 5290                                     | 58  | 802.11ac | OFDM    | 80              | 13.0                        | 12.97                 | 0.00             | Left  | Tilt                                    | 1               | 0704M                | 29.3             | 93.9           | 0.009                 | -        | 1.007                  | 1.065                       | -                 |        |
| 5290                                     | 58  | 802.11ac | OFDM    | 80              | 13.0                        | 12.83                 | 0.00             | Right | Cheek                                   | 2               | 0704M                | 29.3             | 94.8           | 0.049                 | 0.015    | 1.040                  | 1.055                       | 0.016             |        |
| 5290                                     | 58  | 802.11ac | OFDM    | 80              | 13.0                        | 12.83                 | 0.00             | Right | Tilt                                    | 2               | 0704M                | 29.3             | 94.8           | 0.026                 | -        | 1.040                  | 1.055                       | -                 |        |
| 5290                                     | 58  | 802.11ac | OFDM    | 80              | 13.0                        | 12.83                 | 0.00             | Left  | Cheek                                   | 2               | 0704M                | 29.3             | 94.8           | 0.009                 | -        | 1.040                  | 1.055                       | -                 |        |
| 5290                                     | 58  | 802.11ac | OFDM    | 80              | 13.0                        | 12.83                 | 0.00             | Left  | Tilt                                    | 2               | 0704M                | 29.3             | 94.8           | 0.013                 | -        | 1.040                  | 1.055                       | -                 |        |
| 5690                                     | 138 | 802.11ac | OFDM    | 80              | 13.0                        | 12.61                 | 0.18             | Right | Cheek                                   | 1               | 0704M                | 29.3             | 93.9           | 0.086                 | 0.017    | 1.094                  | 1.065                       | 0.020             |        |
| 5690                                     | 138 | 802.11ac | OFDM    | 80              | 13.0                        | 12.61                 | 0.13             | Right | Tilt                                    | 1               | 0704M                | 29.3             | 93.9           | 0.063                 | -        | 1.094                  | 1.065                       | -                 |        |
| 5690                                     | 138 | 802.11ac | OFDM    | 80              | 13.0                        | 12.61                 | 0.00             | Left  | Cheek                                   | 1               | 0704M                | 29.3             | 93.9           | 0.014                 | -        | 1.094                  | 1.065                       | -                 |        |
| 5690                                     | 138 | 802.11ac | OFDM    | 80              | 13.0                        | 12.61                 | 0.00             | Left  | Tilt                                    | 1               | 0704M                | 29.3             | 93.9           | 0.011                 | -        | 1.094                  | 1.065                       | -                 |        |
| 5690                                     | 138 | 802.11ac | OFDM    | 80              | 13.0                        | 12.62                 | 0.00             | Right | Cheek                                   | 2               | 0704M                | 29.3             | 94.8           | 0.055                 | 0.016    | 1.091                  | 1.055                       | 0.018             |        |
| 5690                                     | 138 | 802.11ac | OFDM    | 80              | 13.0                        | 12.62                 | 0.00             | Right | Tilt                                    | 2               | 0704M                | 29.3             | 94.8           | 0.027                 | -        | 1.091                  | 1.055                       | -                 |        |
| 5690                                     | 138 | 802.11ac | OFDM    | 80              | 13.0                        | 12.62                 | 0.00             | Left  | Cheek                                   | 2               | 0704M                | 29.3             | 94.8           | 0.023                 | -        | 1.091                  | 1.055                       | -                 |        |
| 5690                                     | 138 | 802.11ac | OFDM    | 80              | 13.0                        | 12.62                 | 0.00             | Left  | Tilt                                    | 2               | 0704M                | 29.3             | 94.8           | 0.028                 | -        | 1.091                  | 1.055                       | -                 |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 13.0                        | 12.74                 | 0.01             | Right | Cheek                                   | 1               | 0704M                | 29.3             | 93.9           | 0.114                 | 0.039    | 1.062                  | 1.065                       | 0.044             | A28    |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 13.0                        | 12.74                 | 0.00             | Right | Tilt                                    | 1               | 0704M                | 29.3             | 93.9           | 0.075                 | -        | 1.062                  | 1.065                       | -                 |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 13.0                        | 12.74                 | 0.00             | Left  | Cheek                                   | 1               | 0704M                | 29.3             | 93.9           | 0.019                 | -        | 1.062                  | 1.065                       | -                 |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 13.0                        | 12.74                 | 0.00             | Left  | Tilt                                    | 1               | 0704M                | 29.3             | 93.9           | 0.016                 | -        | 1.062                  | 1.065                       | -                 |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 13.0                        | 12.88                 | 0.00             | Right | Cheek                                   | 2               | 0704M                | 29.3             | 94.8           | 0.034                 | 0.015    | 1.028                  | 1.055                       | 0.016             |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 13.0                        | 12.88                 | 0.00             | Right | Tilt                                    | 2               | 0704M                | 29.3             | 94.8           | 0.022                 | -        | 1.028                  | 1.055                       | -                 |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 13.0                        | 12.88                 | 0.00             | Left  | Cheek                                   | 2               | 0704M                | 29.3             | 94.8           | 0.013                 | -        | 1.028                  | 1.055                       | -                 |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 13.0                        | 12.88                 | 0.00             | Left  | Tilt                                    | 2               | 0704M                | 29.3             | 94.8           | 0.013                 | -        | 1.028                  | 1.055                       | -                 |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |     |          |         |                 |                             |                       |                  |       |                                         |                 |                      |                  |                |                       |          |                        |                             |                   |        |
| Spatial Peak                             |     |          |         |                 |                             |                       |                  |       | Head                                    |                 |                      |                  |                |                       |          |                        |                             |                   |        |
| Uncontrolled Exposure/General Population |     |          |         |                 |                             |                       |                  |       | 1.6 W/kg (mW/g)<br>averaged over 1 gram |                 |                      |                  |                |                       |          |                        |                             |                   |        |

|                                      |                                                                                                                                                                                                                 |                               |                                        |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                   | <br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                              | DUT Type:<br>Portable Handset | Page 210 of 305                        |

**Table 11-29  
DSS Head SAR**

| MEASUREMENT RESULTS                                                                               |     |           |         |                             |                       |                  |       |                                                 |                      |                  |                |          |                             |                             |                   |        |
|---------------------------------------------------------------------------------------------------|-----|-----------|---------|-----------------------------|-----------------------|------------------|-------|-------------------------------------------------|----------------------|------------------|----------------|----------|-----------------------------|-----------------------------|-------------------|--------|
| FREQUENCY                                                                                         |     | Mode      | Service | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Side  | Test Position                                   | Device Serial Number | Data Rate (Mbps) | Duty Cycle (%) | SAR (1g) | Scaling Factor (Cond Power) | Scaling Factor (Duty Cycle) | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch. |           |         |                             |                       |                  |       |                                                 |                      |                  |                | (W/kg)   |                             |                             | (W/kg)            |        |
| 2480.00                                                                                           | 78  | Bluetooth | FHSS    | 16.5                        | 16.26                 | -0.01            | Right | Cheek                                           | 1175M                | 1                | 77.3           | 0.300    | 1.057                       | 1.294                       | 0.410             |        |
| 2402.00                                                                                           | 0   | Bluetooth | FHSS    | 16.5                        | 14.69                 | 0.09             | Right | Tilt                                            | 1175M                | 1                | 77.3           | 0.197    | 1.517                       | 1.294                       | 0.387             |        |
| 2441.00                                                                                           | 39  | Bluetooth | FHSS    | 16.5                        | 15.69                 | -0.18            | Right | Tilt                                            | 1175M                | 1                | 77.3           | 0.289    | 1.205                       | 1.294                       | 0.451             |        |
| 2480.00                                                                                           | 78  | Bluetooth | FHSS    | 16.5                        | 16.26                 | 0.19             | Right | Tilt                                            | 1175M                | 1                | 77.3           | 0.432    | 1.057                       | 1.294                       | 0.591             | A29    |
| 2480.00                                                                                           | 78  | Bluetooth | FHSS    | 16.5                        | 16.26                 | 0.09             | Left  | Cheek                                           | 1175M                | 1                | 77.3           | 0.317    | 1.057                       | 1.294                       | 0.434             |        |
| 2480.00                                                                                           | 78  | Bluetooth | FHSS    | 16.5                        | 16.26                 | 0.10             | Left  | Tilt                                            | 1175M                | 1                | 77.3           | 0.384    | 1.057                       | 1.294                       | 0.525             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |     |           |         |                             |                       |                  |       | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                      |                  |                |          |                             |                             |                   |        |

|                                             |                                                                                                                                                                                                                             |                                      |                                                                                       |                                        |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                   | <b>DUT Type:</b><br>Portable Handset | Page 211 of 305                                                                       |                                        |

## 11.2 Standalone Body-Worn SAR Data

**Table 11-30**  
**GSM/UMTS/CDMA Body-Worn SAR Data**

| MEASUREMENT RESULTS                                                                               |      |                   |             |                             |                       |                  |                                                 |               |                      |                 |            |      |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|------|-------------------|-------------|-----------------------------|-----------------------|------------------|-------------------------------------------------|---------------|----------------------|-----------------|------------|------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |      | Mode              | Service     | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Spacing                                         | Antenna State | Device Serial Number | # of Time Slots | Duty Cycle | Side | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch.  |                   |             |                             |                       |                  |                                                 |               |                      |                 |            |      | (W/kg)   |                | (W/kg)            |        |
| 820.10                                                                                            | 564  | CDMA BC10 (\$90S) | TDSO / SO32 | 26.0                        | 24.69                 | -0.01            | 15 mm                                           | 27            | 0120M                | N/A             | 1:1        | back | 0.349    | 1.352          | 0.472             | A30    |
| 836.52                                                                                            | 384  | CDMA BC0 (\$22H)  | TDSO / SO32 | 25.8                        | 24.92                 | 0.00             | 15 mm                                           | 27            | 0120M                | N/A             | 1:1        | back | 0.335    | 1.225          | 0.410             | A32    |
| 1851.25                                                                                           | 25   | PCS CDMA          | TDSO / SO32 | 24.0                        | 23.59                 | -0.02            | 15 mm                                           | 35            | 0100M                | N/A             | 1:1        | back | 0.604    | 1.099          | 0.664             |        |
| 1880.00                                                                                           | 600  | PCS CDMA          | TDSO / SO32 | 24.0                        | 23.36                 | -0.02            | 15 mm                                           | 35            | 0100M                | N/A             | 1:1        | back | 0.585    | 1.159          | 0.678             |        |
| 1908.75                                                                                           | 1175 | PCS CDMA          | TDSO / SO32 | 24.0                        | 23.82                 | -0.04            | 15 mm                                           | 35            | 0100M                | N/A             | 1:1        | back | 0.656    | 1.042          | 0.684             | A34    |
| 836.60                                                                                            | 190  | GSM 850           | GSM         | 33.5                        | 32.86                 | -0.02            | 15 mm                                           | N/A           | 0120M                | 1               | 1:8.3      | back | 0.238    | 1.159          | 0.276             | A36    |
| 1880.00                                                                                           | 661  | GSM 1900          | GSM         | 30.5                        | 29.74                 | 0.02             | 15 mm                                           | N/A           | 0100M                | 1               | 1:8.3      | back | 0.334    | 1.191          | 0.398             | A38    |
| 836.60                                                                                            | 4183 | UMTS 850          | RMC         | 25.8                        | 25.20                 | -0.01            | 15 mm                                           | 27            | 0120M                | N/A             | 1:1        | back | 0.324    | 1.148          | 0.372             | A40    |
| 1712.40                                                                                           | 1312 | UMTS 1750         | RMC         | 24.5                        | 23.91                 | -0.03            | 15 mm                                           | 9             | 0100M                | N/A             | 1:1        | back | 0.618    | 1.146          | 0.708             |        |
| 1732.40                                                                                           | 1412 | UMTS 1750         | RMC         | 24.5                        | 23.89                 | 0.01             | 15 mm                                           | 9             | 0100M                | N/A             | 1:1        | back | 0.690    | 1.151          | 0.794             | A42    |
| 1752.60                                                                                           | 1513 | UMTS 1750         | RMC         | 24.5                        | 23.88                 | 0.17             | 15 mm                                           | 9             | 0100M                | N/A             | 1:1        | back | 0.610    | 1.153          | 0.703             |        |
| 1852.40                                                                                           | 9262 | UMTS 1900         | RMC         | 24.0                        | 23.75                 | 0.01             | 15 mm                                           | 109           | 0116M                | N/A             | 1:1        | back | 0.586    | 1.059          | 0.621             |        |
| 1880.00                                                                                           | 9400 | UMTS 1900         | RMC         | 24.0                        | 23.34                 | 0.02             | 15 mm                                           | 109           | 0116M                | N/A             | 1:1        | back | 0.661    | 1.164          | 0.769             |        |
| 1907.60                                                                                           | 9538 | UMTS 1900         | RMC         | 24.0                        | 23.68                 | -0.02            | 15 mm                                           | 109           | 0116M                | N/A             | 1:1        | back | 0.710    | 1.076          | 0.764             | A44    |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |      |                   |             |                             |                       |                  | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |               |                      |                 |            |      |          |                |                   |        |

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 212 of 305                        |

**Table 11-31**  
**LTE Body-Worn SAR**

| MEASUREMENT RESULTS                                                                               |        |      |                    |                             |                       |                  |          |               |                      |                                                 |         |           |         |       |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|--------|------|--------------------|-----------------------------|-----------------------|------------------|----------|---------------|----------------------|-------------------------------------------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |        | Mode | Bandwidth [MHz]    | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Antenna State | Device Serial Number | Modulation                                      | RB Size | RB Offset | Spacing | Side  | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch.    |      |                    |                             |                       |                  |          |               |                      |                                                 |         |           |         |       |            | (W/kg)   |                | (W/kg)            |        |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71        | 20                          | 25.8                  | 25.17            | 0.02     | 0             | 3                    | 0122M                                           | QPSK    | 1         | 0       | 15 mm | 1:1        | 0.213    | 1.156          | 0.246             | A46    |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71        | 20                          | 24.8                  | 24.20            | -0.03    | 1             | 3                    | 0122M                                           | QPSK    | 50        | 0       | 15 mm | 1:1        | 0.185    | 1.148          | 0.212             |        |
| 707.50                                                                                            | 23095  | Mid  | LTE Band 12        | 10                          | 25.8                  | 25.23            | 0.02     | 0             | 108                  | 0122M                                           | QPSK    | 1         | 0       | 15 mm | 1:1        | 0.220    | 1.140          | 0.251             | A48    |
| 707.50                                                                                            | 23095  | Mid  | LTE Band 12        | 10                          | 24.8                  | 24.31            | 0.03     | 1             | 108                  | 0122M                                           | QPSK    | 25        | 12      | 15 mm | 1:1        | 0.183    | 1.119          | 0.205             |        |
| 782.00                                                                                            | 23230  | Mid  | LTE Band 13        | 10                          | 25.8                  | 25.21            | -0.02    | 0             | 1                    | 0061M                                           | QPSK    | 1         | 25      | 15 mm | 1:1        | 0.335    | 1.146          | 0.384             | A50    |
| 782.00                                                                                            | 23230  | Mid  | LTE Band 13        | 10                          | 24.8                  | 24.28            | -0.05    | 1             | 1                    | 0061M                                           | QPSK    | 25        | 0       | 15 mm | 1:1        | 0.306    | 1.127          | 0.345             |        |
| 793.00                                                                                            | 23330  | Mid  | LTE Band 14        | 10                          | 25.8                  | 25.06            | -0.10    | 0             | 52                   | 0122M                                           | QPSK    | 1         | 0       | 15 mm | 1:1        | 0.361    | 1.186          | 0.428             | A52    |
| 793.00                                                                                            | 23330  | Mid  | LTE Band 14        | 10                          | 24.8                  | 24.07            | 0.02     | 1             | 52                   | 0122M                                           | QPSK    | 25        | 25      | 15 mm | 1:1        | 0.264    | 1.183          | 0.312             |        |
| 831.50                                                                                            | 26865  | Mid  | LTE Band 26 (Cell) | 15                          | 25.8                  | 25.25            | 0.00     | 0             | 66                   | 0061M                                           | QPSK    | 1         | 36      | 15 mm | 1:1        | 0.295    | 1.135          | 0.335             | A54    |
| 831.50                                                                                            | 26865  | Mid  | LTE Band 26 (Cell) | 15                          | 24.8                  | 24.24            | 0.02     | 1             | 66                   | 0061M                                           | QPSK    | 36        | 18      | 15 mm | 1:1        | 0.237    | 1.138          | 0.270             |        |
| 1860.00                                                                                           | 26140  | Low  | LTE Band 25 (PCS)  | 20                          | 24.5                  | 23.75            | 0.02     | 0             | 108                  | 0060M                                           | QPSK    | 1         | 50      | 15 mm | 1:1        | 0.680    | 1.189          | 0.809             |        |
| 1882.50                                                                                           | 26365  | Mid  | LTE Band 25 (PCS)  | 20                          | 24.5                  | 23.67            | 0.00     | 0             | 116                  | 0060M                                           | QPSK    | 1         | 50      | 15 mm | 1:1        | 0.641    | 1.211          | 0.776             |        |
| 1905.00                                                                                           | 26590  | High | LTE Band 25 (PCS)  | 20                          | 24.5                  | 23.66            | -0.09    | 0             | 116                  | 0060M                                           | QPSK    | 1         | 99      | 15 mm | 1:1        | 0.684    | 1.213          | 0.830             | A60    |
| 1860.00                                                                                           | 26140  | Low  | LTE Band 25 (PCS)  | 20                          | 23.5                  | 22.82            | -0.04    | 1             | 108                  | 0060M                                           | QPSK    | 50        | 0       | 15 mm | 1:1        | 0.548    | 1.169          | 0.641             |        |
| 1905.00                                                                                           | 26590  | High | LTE Band 25 (PCS)  | 20                          | 23.5                  | 22.68            | -0.04    | 1             | 116                  | 0060M                                           | QPSK    | 100       | 0       | 15 mm | 1:1        | 0.550    | 1.208          | 0.664             |        |
| 2310.00                                                                                           | 27710  | Mid  | LTE Band 30        | 10                          | 24.0                  | 23.58            | -0.01    | 0             | N/A                  | 0060M                                           | QPSK    | 1         | 49      | 15 mm | 1:1        | 0.481    | 1.102          | 0.530             | A62    |
| 2310.00                                                                                           | 27710  | Mid  | LTE Band 30        | 10                          | 23.0                  | 22.63            | -0.02    | 1             | N/A                  | 0060M                                           | QPSK    | 25        | 12      | 15 mm | 1:1        | 0.415    | 1.089          | 0.452             |        |
| 2510.00                                                                                           | 20850  | Low  | LTE Band 7         | 20                          | 24.0                  | 23.17            | 0.01     | 0             | N/A                  | 0090M                                           | QPSK    | 1         | 0       | 15 mm | 1:1        | 0.387    | 1.211          | 0.469             | A64    |
| 2510.00                                                                                           | 20850  | Low  | LTE Band 7         | 20                          | 23.0                  | 22.22            | 0.01     | 1             | N/A                  | 0090M                                           | QPSK    | 50        | 0       | 15 mm | 1:1        | 0.342    | 1.197          | 0.409             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |        |      |                    |                             |                       |                  |          |               |                      | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |         |           |         |       |            |          |                |                   |        |

**Table 11-32**  
**LTE Band 5 (Cell) Body-Worn SAR**

| MEASUREMENT RESULTS                                   |                      |           |       |      |                    |                                   |                          |                     |          |                  |                            |                                                 |         |           |         |       |               |          |                   |                   |        |     |
|-------------------------------------------------------|----------------------|-----------|-------|------|--------------------|-----------------------------------|--------------------------|---------------------|----------|------------------|----------------------------|-------------------------------------------------|---------|-----------|---------|-------|---------------|----------|-------------------|-------------------|--------|-----|
| 1 CC Uplink  <br>2 CC Uplink                          | Component<br>Carrier | FREQUENCY |       | Mode | Bandwidth<br>[MHz] | Maximum<br>Allowed<br>Power [dBm] | Conducted<br>Power [dBm] | Power<br>Drift [dB] | MPR [dB] | Antenna<br>State | Device<br>Serial<br>Number | Modulation                                      | RB Size | RB Offset | Spacing | Side  | Duty<br>Cycle | SAR (1g) | Scaling<br>Factor | Reported SAR (1g) | Plot # |     |
|                                                       |                      | MHz       | Ch.   |      |                    |                                   |                          |                     |          |                  |                            |                                                 |         |           |         |       |               | (W/kg)   |                   | (W/kg)            |        |     |
| 1 CC Uplink                                           | N/A                  | 836.50    | 20525 | Mid  | LTE Band 5 (Cell)  | 10                                | 25.8                     | 25.15               | -0.03    | 0                | 65                         | 0086M                                           | QPSK    | 1         | 0       | 15 mm | back          | 1:1      | 0.319             | 1.161             | 0.370  |     |
| 1 CC Uplink                                           | N/A                  | 836.50    | 20525 | Mid  | LTE Band 5 (Cell)  | 10                                | 24.8                     | 24.16               | 0.01     | 1                | 65                         | 0086M                                           | QPSK    | 25        | 12      | 15 mm | back          | 1:1      | 0.276             | 1.159             | 0.320  |     |
| 2 CC Uplink                                           | PCC                  | 836.50    | 20525 | Mid  | LTE Band 5 (Cell)  | 10                                | 25.8                     | 25.35               | -0.01    | 0                | 65                         | 0086M                                           | QPSK    | 1         | 0       | 15 mm | back          | 1:1      | 0.350             | 1.109             | 0.388  | A56 |
|                                                       | SCC                  | 829.30    | 20453 | Mid  | LTE Band 5 (Cell)  | 5                                 |                          |                     |          |                  |                            |                                                 | QPSK    | 1         | 24      |       |               |          |                   |                   |        |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak |                      |           |       |      |                    |                                   |                          |                     |          |                  |                            | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |         |           |         |       |               |          |                   |                   |        |     |
| Uncontrolled Exposure/General Population              |                      |           |       |      |                    |                                   |                          |                     |          |                  |                            |                                                 |         |           |         |       |               |          |                   |                   |        |     |

|                                      |                                                                                                                                                                                                                             |                               |                                                                                       |                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                          | DUT Type:<br>Portable Handset | Page 213 of 305                                                                       |                                 |

**Table 11-33**  
**LTE Band 66 (AWS) Body-Worn SAR**

| MEASUREMENT RESULTS                                   |                      |           |        |      |                   |                    |                                   |                          |                     |          |                  |                                                 |            |         |           |         |      |               |          |                   |                   |        |
|-------------------------------------------------------|----------------------|-----------|--------|------|-------------------|--------------------|-----------------------------------|--------------------------|---------------------|----------|------------------|-------------------------------------------------|------------|---------|-----------|---------|------|---------------|----------|-------------------|-------------------|--------|
| 1 CC Uplink /<br>2 CC Uplink                          | Component<br>Carrier | FREQUENCY |        |      | Mode              | Bandwidth<br>[MHz] | Maximum<br>Allowed<br>Power [dBm] | Conducted<br>Power [dBm] | Power<br>Drift [dB] | MPR [dB] | Antenna<br>State | Device<br>Serial<br>Number                      | Modulation | RB Size | RB Offset | Spacing | Side | Duty<br>Cycle | SAR (1g) | Scaling<br>Factor | Reported SAR (1g) | Plot # |
|                                                       |                      | MHz       | Ch.    |      |                   |                    |                                   |                          |                     |          |                  |                                                 |            |         |           |         |      |               | (W/kg)   |                   | (W/kg)            |        |
| 1 CC Uplink                                           | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                 | 24.5                              | 23.68                    | 0.02                | 0        | 0                | 0071M                                           | QPSK       | 1       | 50        | 15 mm   | back | 1:1           | 0.717    | 1.208             | 0.866             |        |
| 1 CC Uplink                                           | N/A                  | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 10                 | 24.5                              | 23.49                    | -0.03               | 0        | 0                | 0071M                                           | QPSK       | 1       | 0         | 15 mm   | back | 1:1           | 0.760    | 1.262             | 0.959             |        |
| 1 CC Uplink                                           | N/A                  | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 20                 | 24.5                              | 23.35                    | -0.01               | 0        | 0                | 0071M                                           | QPSK       | 1       | 0         | 15 mm   | back | 1:1           | 0.739    | 1.303             | 0.963             |        |
| 1 CC Uplink                                           | N/A                  | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 20                 | 24.5                              | 23.54                    | -0.03               | 0        | 0                | 0071M                                           | QPSK       | 1       | 50        | 15 mm   | back | 1:1           | 0.738    | 1.247             | 0.920             |        |
| 1 CC Uplink                                           | N/A                  | 1770.00   | 132572 | High | LTE Band 66 (AWS) | 20                 | 24.5                              | 23.67                    | -0.02               | 0        | 4                | 0071M                                           | QPSK       | 1       | 0         | 15 mm   | back | 1:1           | 0.760    | 1.211             | 0.920             |        |
| 1 CC Uplink                                           | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                 | 23.5                              | 22.91                    | 0.01                | 1        | 0                | 0071M                                           | QPSK       | 50      | 25        | 15 mm   | back | 1:1           | 0.585    | 1.146             | 0.670             |        |
| 1 CC Uplink                                           | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                 | 23.5                              | 22.84                    | -0.02               | 1        | 0                | 0071M                                           | QPSK       | 100     | 0         | 15 mm   | back | 1:1           | 0.586    | 1.164             | 0.682             |        |
| 2 CC Uplink<br>CA_66C                                 | PCC                  | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 20                 | 24.5                              | 24.11                    | 0.08                | 0        | 0                | 0071M                                           | QPSK       | 1       | 0         | 15 mm   | back | 1:1           | 0.922    | 1.094             | 1.009             | A58    |
|                                                       | SCC                  | 1725.20   | 132124 | Mid  | LTE Band 66 (AWS) | 20                 |                                   |                          |                     |          |                  |                                                 | QPSK       | 1       | 99        |         |      |               |          |                   |                   |        |
| 2 CC Uplink<br>CA_66B                                 | PCC                  | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 10                 | 24.5                              | 23.92                    | -0.03               | 0        | 0                | 0071M                                           | QPSK       | 1       | 0         | 15 mm   | back | 1:1           | 0.838    | 1.143             | 0.958             |        |
|                                                       | SCC                  | 1735.10   | 132223 | Mid  | LTE Band 66 (AWS) | 10                 |                                   |                          |                     |          |                  |                                                 | QPSK       | 1       | 49        |         |      |               |          |                   |                   |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak |                      |           |        |      |                   |                    |                                   |                          |                     |          |                  | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |            |         |           |         |      |               |          |                   |                   |        |
| Uncontrolled Exposure/General Population              |                      |           |        |      |                   |                    |                                   |                          |                     |          |                  |                                                 |            |         |           |         |      |               |          |                   |                   |        |

**Table 11-34**  
**LTE Band 48 Body-Worn SAR**

| MEASUREMENT RESULTS                                                                               |                      |           |       |         |             |                    |                                   |                          |                     |          |                                                 |            |         |           |         |      |               |          |                   |                      |        |
|---------------------------------------------------------------------------------------------------|----------------------|-----------|-------|---------|-------------|--------------------|-----------------------------------|--------------------------|---------------------|----------|-------------------------------------------------|------------|---------|-----------|---------|------|---------------|----------|-------------------|----------------------|--------|
| 1 CC Uplink  <br>2 CC Uplink                                                                      | Component<br>Carrier | FREQUENCY |       |         | Mode        | Bandwidth<br>[MHz] | Maximum<br>Allowed<br>Power [dBm] | Conducted<br>Power [dBm] | Power<br>Drift [dB] | MPR [dB] | Device<br>Serial<br>Number                      | Modulation | RB Size | RB Offset | Spacing | Side | Duty<br>Cycle | SAR (1g) | Scaling<br>Factor | Reported SAR<br>(1g) | Plot # |
|                                                                                                   |                      | MHz       | Ch.   | (W/kg)  |             |                    |                                   |                          |                     |          |                                                 |            |         |           |         |      |               | (W/kg)   |                   |                      |        |
| 1 CC Uplink                                                                                       | N/A                  | 3603.30   | 55773 | Low-Mid | LTE Band 48 | 20                 | 25.0                              | 24.29                    | 0.03                | 0        | 1184M                                           | QPSK       | 1       | 0         | 15 mm   | back | 1:1.58        | 0.289    | 1.178             | 0.340                |        |
| 1 CC Uplink                                                                                       | N/A                  | 3603.30   | 55773 | Low-Mid | LTE Band 48 | 20                 | 25.0                              | 24.80                    | -0.05               | 0        | 1184M                                           | QPSK       | 1       | 50        | 15 mm   | back | 1:1.58        | 0.249    | 1.047             | 0.261                |        |
| 1 CC Uplink                                                                                       | N/A                  | 3603.30   | 55773 | Low-Mid | LTE Band 48 | 20                 | 24.0                              | 23.66                    | 0.05                | 1        | 1184M                                           | QPSK       | 50      | 25        | 15 mm   | back | 1:1.58        | 0.202    | 1.081             | 0.218                |        |
| 2 CC Uplink                                                                                       | PCC                  | 3603.30   | 55773 | Low-Mid | LTE Band 48 | 20                 | 25.0                              | 24.89                    | 0.07                | 0        | 1184M                                           | QPSK       | 1       | 0         | 15 mm   | back | 1:1.58        | 0.348    | 1.026             | 0.357                | A66    |
|                                                                                                   | SCC                  | 3583.50   | 55575 | Low-Mid | LTE Band 48 | 20                 |                                   |                          |                     |          |                                                 | QPSK       | 1       | 99        |         |      |               |          |                   |                      |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |                      |           |       |         |             |                    |                                   |                          |                     |          | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |            |         |           |         |      |               |          |                   |                      |        |

**Table 11-35**  
**LTE Band 41 Body-Worn SAR**

| MEASUREMENT RESULTS                                                                               |                      |           |       |      |                    |                                   |                          |                     |          |                                                 |            |         |           |         |       |               |          |                   |                      |        |
|---------------------------------------------------------------------------------------------------|----------------------|-----------|-------|------|--------------------|-----------------------------------|--------------------------|---------------------|----------|-------------------------------------------------|------------|---------|-----------|---------|-------|---------------|----------|-------------------|----------------------|--------|
| 1 CC Uplink   2 CC Uplink,<br>Power Class                                                         | Component<br>Carrier | FREQUENCY |       | Mode | Bandwidth<br>[MHz] | Maximum<br>Allowed<br>Power [dBm] | Conducted<br>Power [dBm] | Power<br>Drift [dB] | MPR [dB] | Device<br>Serial<br>Number                      | Modulation | RB Size | RB Offset | Spacing | Side  | Duty<br>Cycle | SAR (1g) | Scaling<br>Factor | Reported SAR<br>(1g) | Plot # |
|                                                                                                   |                      | MHz       | Ch.   |      |                    |                                   |                          |                     |          |                                                 |            |         |           |         |       |               | (W/kg)   |                   | (W/kg)               |        |
| 1 CC Uplink - Power Class 3                                                                       | N/A                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 25.0                     | 24.11               | 0.00     | 0                                               | 0085M      | QPSK    | 1         | 99      | 15 mm | back          | 1:1.58   | 0.203             | 1.227                | 0.249  |
| 1 CC Uplink - Power Class 3                                                                       | N/A                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 24.0                     | 23.23               | 0.05     | 1                                               | 0085M      | QPSK    | 50        | 25      | 15 mm | back          | 1:1.58   | 0.161             | 1.194                | 0.192  |
| 1 CC Uplink - Power Class 2                                                                       | N/A                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 27.5                     | 26.72               | -0.06    | 0                                               | 0085M      | QPSK    | 1         | 99      | 15 mm | back          | 1:2.31   | 0.253             | 1.197                | 0.303  |
| 2 CC Uplink - Power Class 3                                                                       | PCC                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 25.0                     | 24.41               | -0.13    | 0                                               | 0085M      | QPSK    | 1         | 99      | 15 mm | back          | 1:1.58   | 0.208             | 1.146                | 0.238  |
|                                                                                                   | SCC                  | 2525.80   | 39948 | Low  | LTE Band 41        | 20                                |                          |                     |          |                                                 |            | QPSK    | 1         | 0       |       |               |          |                   |                      |        |
| 2 CC Uplink - Power Class 2                                                                       | PCC                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 27.5                     | 27.15               | 0.04     | 0                                               | 0085M      | QPSK    | 1         | 99      | 15 mm | back          | 1:2.31   | 0.291             | 1.084                | 0.315  |
|                                                                                                   | SCC                  | 2525.80   | 39948 | Low  | LTE Band 41        | 20                                |                          |                     |          |                                                 |            | QPSK    | 1         | 0       |       |               |          |                   |                      |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |                      |           |       |      |                    |                                   |                          |                     |          | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |            |         |           |         |       |               |          |                   |                      |        |

|                                      |                                                                                                                           |                               |                                                                                       |                                 |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   | <br>PCTEST<br>Proud to be part of ROHM | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                        | DUT Type:<br>Portable Handset |                                                                                       | Page 214 of 305                 |

**Table 11-36**  
**NR Body-Worn SAR**

| MEASUREMENT RESULTS                                                                               |        |      |                   |                             |                       |                  |          |               |                      |                                                 |                 |           |         |       |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|--------|------|-------------------|-----------------------------|-----------------------|------------------|----------|---------------|----------------------|-------------------------------------------------|-----------------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |        | Mode | Bandwidth [MHz]   | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Antenna State | Device Serial Number | Modulation                                      | RB Size         | RB Offset | Spacing | Side  | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |
| MHz                                                                                               | Ch.    |      |                   |                             |                       |                  |          |               |                      |                                                 |                 |           |         |       |            | (W/kg)   |                | (W/kg)            |        |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71       | 20                          | 25.5                  | 25.05            | 0.17     | 0             | 3                    | 0070M                                           | DFT-S-OFDM QPSK | 1         | 53      | 15 mm | back       | 1:1      | 0.205          | 1.109             | 0.227  | A70 |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71       | 20                          | 25.5                  | 24.66            | 0.03     | 0             | 3                    | 0070M                                           | DFT-S-OFDM QPSK | 50        | 28      | 15 mm | back       | 1:1      | 0.193          | 1.213             | 0.234  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71       | 20                          | 24.0                  | 23.41            | 0.08     | 1.5           | 3                    | 0070M                                           | CP-OFDM QPSK    | 1         | 1       | 15 mm | back       | 1:1      | 0.146          | 1.146             | 0.167  |     |
| 707.50                                                                                            | 141500 | Mid  | NR Band n12       | 15                          | 25.5                  | 24.78            | -0.01    | 0             | 108                  | 0095M                                           | DFT-S-OFDM QPSK | 1         | 77      | 15 mm | back       | 1:1      | 0.192          | 1.180             | 0.227  | A72 |
| 707.50                                                                                            | 141500 | Mid  | NR Band n12       | 15                          | 25.5                  | 24.54            | -0.05    | 0             | 108                  | 0095M                                           | DFT-S-OFDM QPSK | 36        | 22      | 15 mm | back       | 1:1      | 0.174          | 1.247             | 0.217  |     |
| 707.50                                                                                            | 141500 | Mid  | NR Band n12       | 15                          | 24.0                  | 22.95            | -0.01    | 1.5           | 108                  | 0095M                                           | CP-OFDM QPSK    | 1         | 1       | 15 mm | back       | 1:1      | 0.101          | 1.274             | 0.129  |     |
| 836.50                                                                                            | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 25.5                  | 25.06            | 0.01     | 0             | 65                   | 0089M                                           | DFT-S-OFDM QPSK | 1         | 53      | 15 mm | back       | 1:1      | 0.264          | 1.107             | 0.292  | A74 |
| 836.50                                                                                            | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 25.5                  | 24.67            | -0.01    | 0             | 65                   | 0089M                                           | DFT-S-OFDM QPSK | 50        | 28      | 15 mm | back       | 1:1      | 0.255          | 1.211             | 0.309  |     |
| 836.50                                                                                            | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 24.0                  | 23.04            | -0.07    | 1.5           | 65                   | 0089M                                           | CP-OFDM QPSK    | 1         | 1       | 15 mm | back       | 1:1      | 0.146          | 1.247             | 0.182  |     |
| 1720.00                                                                                           | 344000 | Low  | NR Band n66 (AWS) | 20                          | 24.5                  | 23.93            | -0.05    | 0             | 0                    | 0066M                                           | DFT-S-OFDM QPSK | 1         | 53      | 15 mm | back       | 1:1      | 0.782          | 1.140             | 0.891  |     |
| 1745.00                                                                                           | 349000 | Mid  | NR Band n66 (AWS) | 20                          | 24.5                  | 23.78            | -0.03    | 0             | 0                    | 0066M                                           | DFT-S-OFDM QPSK | 1         | 53      | 15 mm | back       | 1:1      | 0.860          | 1.180             | 1.015  | A76 |
| 1770.00                                                                                           | 354000 | High | NR Band n66 (AWS) | 20                          | 24.5                  | 23.76            | -0.14    | 0             | 4                    | 0066M                                           | DFT-S-OFDM QPSK | 1         | 53      | 15 mm | back       | 1:1      | 0.707          | 1.186             | 0.839  |     |
| 1720.00                                                                                           | 344000 | Low  | NR Band n66 (AWS) | 20                          | 24.5                  | 23.67            | -0.03    | 0             | 0                    | 0066M                                           | DFT-S-OFDM QPSK | 50        | 28      | 15 mm | back       | 1:1      | 0.765          | 1.211             | 0.926  |     |
| 1745.00                                                                                           | 349000 | Mid  | NR Band n66 (AWS) | 20                          | 24.5                  | 23.54            | 0.06     | 0             | 0                    | 0066M                                           | DFT-S-OFDM QPSK | 50        | 28      | 15 mm | back       | 1:1      | 0.831          | 1.247             | 1.036  |     |
| 1745.00                                                                                           | 349000 | Mid  | NR Band n66 (AWS) | 20                          | 23.0                  | 22.12            | 0.06     | 1.5           | 0                    | 0066M                                           | CP-OFDM QPSK    | 1         | 1       | 15 mm | back       | 1:1      | 0.557          | 1.225             | 0.682  |     |
| 1770.00                                                                                           | 354000 | High | NR Band n66 (AWS) | 20                          | 24.5                  | 23.56            | 0.13     | 0             | 0                    | 0066M                                           | DFT-S-OFDM QPSK | 50        | 28      | 15 mm | back       | 1:1      | 0.752          | 1.242             | 0.934  |     |
| 1720.00                                                                                           | 344000 | Low  | NR Band n66 (AWS) | 20                          | 23.5                  | 22.69            | 0.03     | 1             | 0                    | 0066M                                           | DFT-S-OFDM QPSK | 100       | 0       | 15 mm | back       | 1:1      | 0.683          | 1.205             | 0.823  |     |
| 1860.00                                                                                           | 372000 | Low  | NR Band n25 (PCS) | 20                          | 24.5                  | 23.87            | -0.06    | 0             | 108                  | 0065M                                           | DFT-S-OFDM QPSK | 1         | 53      | 15 mm | back       | 1:1      | 0.641          | 1.156             | 0.741  |     |
| 1882.50                                                                                           | 376500 | Mid  | NR Band n25 (PCS) | 20                          | 24.5                  | 23.47            | 0.10     | 0             | 116                  | 0065M                                           | DFT-S-OFDM QPSK | 1         | 1       | 15 mm | back       | 1:1      | 0.546          | 1.268             | 0.692  |     |
| 1905.00                                                                                           | 381000 | High | NR Band n25 (PCS) | 20                          | 24.5                  | 23.91            | 0.13     | 0             | 116                  | 0065M                                           | DFT-S-OFDM QPSK | 1         | 53      | 15 mm | back       | 1:1      | 0.659          | 1.146             | 0.755  | A78 |
| 1905.00                                                                                           | 381000 | High | NR Band n25 (PCS) | 20                          | 24.5                  | 23.91            | 0.11     | 0             | 108                  | 0065M                                           | DFT-S-OFDM QPSK | 50        | 28      | 15 mm | back       | 1:1      | 0.653          | 1.146             | 0.748  |     |
| 1905.00                                                                                           | 381000 | High | NR Band n25 (PCS) | 20                          | 23.0                  | 22.31            | 0.15     | 1.5           | 116                  | 0065M                                           | CP-OFDM QPSK    | 1         | 1       | 15 mm | back       | 1:1      | 0.397          | 1.172             | 0.465  |     |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41       | 100                         | 25.5                  | 24.56            | 0.12     | 0             | N/A                  | 1187M                                           | DFT-S-OFDM QPSK | 1         | 137     | 15 mm | back       | 1:4      | 0.081          | 1.242             | 0.101  | A80 |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41       | 100                         | 25.5                  | 24.32            | 0.12     | 0             | N/A                  | 1187M                                           | DFT-S-OFDM QPSK | 135       | 69      | 15 mm | back       | 1:4      | 0.078          | 1.312             | 0.102  |     |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41       | 100                         | 24.0                  | 23.03            | 0.08     | 1.5           | N/A                  | 1187M                                           | CP-OFDM QPSK    | 1         | 1       | 15 mm | back       | 1:4      | 0.072          | 1.250             | 0.090  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |        |      |                   |                             |                       |                  |          |               |                      | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                 |           |         |       |            |          |                |                   |        |     |

**Table 11-37**  
**DTS Body-Worn SAR**

| MEASUREMENT RESULTS                                                                               |     |         |         |                 |                             |                       |                  |                                                 |                 |                      |                  |      |                |                       |          |                        |                             |                   |        |
|---------------------------------------------------------------------------------------------------|-----|---------|---------|-----------------|-----------------------------|-----------------------|------------------|-------------------------------------------------|-----------------|----------------------|------------------|------|----------------|-----------------------|----------|------------------------|-----------------------------|-------------------|--------|
| FREQUENCY                                                                                         |     | Mode    | Service | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Spacing                                         | Antenna Config. | Device Serial Number | Data Rate (Mbps) | Side | Duty Cycle (%) | Peak SAR of Area Scan | SAR (1g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch. |         |         |                 |                             |                       |                  |                                                 |                 |                      |                  |      |                | W/kg                  | (W/kg)   |                        |                             | (W/kg)            |        |
| 2462                                                                                              | 11  | 802.11b | DSSS    | 22              | 20.5                        | 20.49                 | 0.04             | 15 mm                                           | 1               | 0697M                | 1                | back | 99.9           | 0.150                 | 0.104    | 1.002                  | 1.001                       | 0.104             | A82    |
| 2412                                                                                              | 1   | 802.11b | DSSS    | 22              | 20.5                        | 20.43                 | 0.15             | 15 mm                                           | 2               | 0697M                | 1                | back | 99.0           | 0.089                 | 0.056    | 1.016                  | 1.010                       | 0.057             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |     |         |         |                 |                             |                       |                  | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                 |                      |                  |      |                |                       |          |                        |                             |                   |        |

|                                             |                                                                                                                                                                                                |                                      |                                                                                       |                                        |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          | <br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                      | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 215 of 305                        |

**Table 11-38**  
**NII SISO Body-Worn SAR**

| MEASUREMENT RESULTS                      |     |         |         |                 |                             |                       |                  |                      |                 |                      |                  |      |                |                       |          |                        |                             |                   |        |
|------------------------------------------|-----|---------|---------|-----------------|-----------------------------|-----------------------|------------------|----------------------|-----------------|----------------------|------------------|------|----------------|-----------------------|----------|------------------------|-----------------------------|-------------------|--------|
| FREQUENCY                                |     | Mode    | Service | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Spacing              | Antenna Config. | Device Serial Number | Data Rate (Mbps) | Side | Duty Cycle (%) | Peak SAR of Area Scan | SAR (1g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (1g) | Plot # |
| MHz                                      | Ch. |         |         |                 |                             |                       |                  |                      |                 |                      |                  |      |                | W/kg                  | (W/kg)   | (W/kg)                 |                             |                   |        |
| 5300                                     | 60  | 802.11a | OFDM    | 20              | 18.5                        | 18.18                 | 0.18             | 15 mm                | 1               | 0697M                | 6                | back | 99.0           | 0.458                 | 0.225    | 1.076                  | 1.010                       | 0.245             |        |
| 5260                                     | 52  | 802.11a | OFDM    | 20              | 18.5                        | 18.30                 | 0.11             | 15 mm                | 2               | 0697M                | 6                | back | 98.9           | 0.460                 | 0.230    | 1.047                  | 1.011                       | 0.243             |        |
| 5600                                     | 120 | 802.11a | OFDM    | 20              | 18.5                        | 18.28                 | 0.17             | 15 mm                | 1               | 0697M                | 6                | back | 99.0           | 0.377                 | 0.186    | 1.052                  | 1.010                       | 0.198             |        |
| 5720                                     | 144 | 802.11a | OFDM    | 20              | 18.5                        | 18.42                 | -0.12            | 15 mm                | 2               | 0697M                | 6                | back | 98.9           | 0.822                 | 0.398    | 1.019                  | 1.011                       | 0.410             |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.5                        | 18.04                 | -0.06            | 15 mm                | 1               | 0697M                | 6                | back | 99.0           | 1.034                 | 0.447    | 1.112                  | 1.010                       | 0.502             |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.5                        | 18.49                 | 0.01             | 15 mm                | 2               | 0697M                | 6                | back | 98.9           | 0.673                 | 0.393    | 1.002                  | 1.011                       | 0.398             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |     |         |         |                 |                             |                       |                  | Body                 |                 |                      |                  |      |                |                       |          |                        |                             |                   |        |
| Spatial Peak                             |     |         |         |                 |                             |                       |                  | 1.6 W/kg (mW/g)      |                 |                      |                  |      |                |                       |          |                        |                             |                   |        |
| Uncontrolled Exposure/General Population |     |         |         |                 |                             |                       |                  | averaged over 1 gram |                 |                      |                  |      |                |                       |          |                        |                             |                   |        |

**Table 11-39**  
**NII SISO Body-Worn SAR for Conditions with NR Active**

| MEASUREMENT RESULTS                      |     |          |         |                 |                             |                       |                  |                      |                 |                      |                  |      |                |                       |          |                        |                             |                   |        |
|------------------------------------------|-----|----------|---------|-----------------|-----------------------------|-----------------------|------------------|----------------------|-----------------|----------------------|------------------|------|----------------|-----------------------|----------|------------------------|-----------------------------|-------------------|--------|
| FREQUENCY                                |     | Mode     | Service | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Spacing              | Antenna Config. | Device Serial Number | Data Rate (Mbps) | Side | Duty Cycle (%) | Peak SAR of Area Scan | SAR (1g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (1g) | Plot # |
| MHz                                      | Ch. |          |         |                 |                             |                       |                  |                      |                 |                      |                  |      |                | W/kg                  | (W/kg)   | (W/kg)                 |                             |                   |        |
| 5290                                     | 58  | 802.11ac | OFDM    | 80              | 13.0                        | 12.97                 | 0.17             | 15 mm                | 1               | 0697M                | 29.3             | back | 93.9           | 0.080                 | 0.038    | 1.007                  | 1.065                       | 0.041             |        |
| 5290                                     | 58  | 802.11ac | OFDM    | 80              | 13.0                        | 12.83                 | -0.16            | 15 mm                | 2               | 0697M                | 29.3             | back | 94.8           | 0.095                 | 0.042    | 1.040                  | 1.055                       | 0.046             |        |
| 5690                                     | 138 | 802.11ac | OFDM    | 80              | 13.0                        | 12.61                 | 0.04             | 15 mm                | 1               | 0697M                | 29.3             | back | 93.9           | 0.096                 | 0.039    | 1.094                  | 1.065                       | 0.045             |        |
| 5690                                     | 138 | 802.11ac | OFDM    | 80              | 13.0                        | 12.62                 | -0.13            | 15 mm                | 2               | 0697M                | 29.3             | back | 94.8           | 0.223                 | 0.115    | 1.091                  | 1.055                       | 0.132             |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 13.0                        | 12.74                 | -0.18            | 15 mm                | 1               | 0697M                | 29.3             | back | 93.9           | 0.209                 | 0.092    | 1.062                  | 1.065                       | 0.104             |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 13.0                        | 12.88                 | 0.12             | 15 mm                | 2               | 0697M                | 29.3             | back | 94.8           | 0.198                 | 0.090    | 1.028                  | 1.055                       | 0.098             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |     |          |         |                 |                             |                       |                  | Body                 |                 |                      |                  |      |                |                       |          |                        |                             |                   |        |
| Spatial Peak                             |     |          |         |                 |                             |                       |                  | 1.6 W/kg (mW/g)      |                 |                      |                  |      |                |                       |          |                        |                             |                   |        |
| Uncontrolled Exposure/General Population |     |          |         |                 |                             |                       |                  | averaged over 1 gram |                 |                      |                  |      |                |                       |          |                        |                             |                   |        |

**Table 11-40**  
**NII MIMO Body-Worn SAR**

| MEASUREMENT RESULTS                      |     |         |         |                 |                                     |                               |                                     |                               |                  |                      |                 |                      |                  |      |                |                       |          |                        |                             |                   |        |
|------------------------------------------|-----|---------|---------|-----------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|------------------|----------------------|-----------------|----------------------|------------------|------|----------------|-----------------------|----------|------------------------|-----------------------------|-------------------|--------|
| FREQUENCY                                |     | Mode    | Service | Bandwidth [MHz] | Maximum Allowed Power (Ant 1) [dBm] | Conducted Power (Ant 1) [dBm] | Maximum Allowed Power (Ant 2) [dBm] | Conducted Power (Ant 2) [dBm] | Power Drift [dB] | Spacing              | Antenna Config. | Device Serial Number | Data Rate [Mbps] | Side | Duty Cycle (%) | Peak SAR of Area Scan | SAR (1g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (1g) | Plot # |
| MHz                                      | Ch. |         |         |                 |                                     |                               |                                     |                               |                  |                      |                 |                      |                  |      |                | W/kg                  | (W/kg)   |                        |                             | (W/kg)            |        |
| 5300                                     | 60  | 802.11n | OFDM    | 20              | 18.5                                | 18.30                         | 18.5                                | 18.25                         | 0.00             | 15 mm                | MIMO            | 0697M                | 13               | back | 97.6           | 0.710                 | 0.316    | 1.059                  | 1.025                       | 0.343             |        |
| 5500                                     | 100 | 802.11n | OFDM    | 20              | 18.5                                | 17.90                         | 18.5                                | 18.10                         | -0.11            | 15 mm                | MIMO            | 0697M                | 13               | back | 97.6           | 1.021                 | 0.526    | 1.148                  | 1.025                       | 0.619             |        |
| 5620                                     | 124 | 802.11n | OFDM    | 20              | 18.5                                | 18.26                         | 18.5                                | 18.16                         | -0.05            | 15 mm                | MIMO            | 0697M                | 13               | back | 97.6           | 1.365                 | 0.676    | 1.081                  | 1.025                       | 0.749             |        |
| 5720                                     | 144 | 802.11n | OFDM    | 20              | 18.5                                | 18.20                         | 18.5                                | 18.32                         | -0.01            | 15 mm                | MIMO            | 0697M                | 13               | back | 97.6           | 1.847                 | 0.787    | 1.072                  | 1.025                       | 0.865             | A84    |
| 5755                                     | 151 | 802.11n | OFDM    | 40              | 17.0                                | 16.98                         | 17.0                                | 16.92                         | -0.11            | 15 mm                | MIMO            | 0697M                | 27               | back | 95.1           | 1.339                 | 0.591    | 1.019                  | 1.052                       | 0.634             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |     |         |         |                 |                                     |                               |                                     |                               |                  | Body                 |                 |                      |                  |      |                |                       |          |                        |                             |                   |        |
| Spatial Peak                             |     |         |         |                 |                                     |                               |                                     |                               |                  | 1.6 W/kg (mW/g)      |                 |                      |                  |      |                |                       |          |                        |                             |                   |        |
| Uncontrolled Exposure/General Population |     |         |         |                 |                                     |                               |                                     |                               |                  | averaged over 1 gram |                 |                      |                  |      |                |                       |          |                        |                             |                   |        |

Note: To achieve the 21.5 dBm maximum allowed MIMO power shown in the documentation for channels 60, 100, 124, 144, each antenna transmits at a maximum allowed power of 18.5 dBm. To achieve the 20.0 dBm maximum allowed MIMO power shown in the documentation for channels 151, each antenna transmits at a maximum allowed power of 17.0 dBm.

**Table 11-41**  
**NII MIMO Body-Worn SAR for Conditions with 2.4 GHz and 5 GHz WLAN SAR**

| MEASUREMENT RESULTS                      |     |          |         |                 |                                     |                               |                                     |                               |                  |                      |                 |                      |                  |      |                |                       |          |                        |                             |                   |        |
|------------------------------------------|-----|----------|---------|-----------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|------------------|----------------------|-----------------|----------------------|------------------|------|----------------|-----------------------|----------|------------------------|-----------------------------|-------------------|--------|
| FREQUENCY                                |     | Mode     | Service | Bandwidth [MHz] | Maximum Allowed Power (Ant 1) [dBm] | Conducted Power (Ant 1) [dBm] | Maximum Allowed Power (Ant 2) [dBm] | Conducted Power (Ant 2) [dBm] | Power Drift [dB] | Spacing              | Antenna Config. | Device Serial Number | Data Rate (Mbps) | Side | Duty Cycle (%) | Peak SAR of Area Scan | SAR (1g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (1g) | Plot # |
| MHz                                      | Ch. |          |         |                 |                                     |                               |                                     |                               |                  |                      |                 |                      |                  |      |                | W/kg                  | (W/kg)   |                        |                             | (W/kg)            |        |
| 5290                                     | 58  | 802.11ac | OFDM    | 80              | 13.0                                | 12.97                         | 13.0                                | 12.83                         | 0.16             | 15 mm                | MIMO            | 0697M                | 58.5             | back | 91.0           | 0.125                 | 0.054    | 1.040                  | 1.099                       | 0.062             |        |
| 5690                                     | 138 | 802.11ac | OFDM    | 80              | 13.0                                | 12.61                         | 13.0                                | 12.62                         | 0.15             | 15 mm                | MIMO            | 0697M                | 58.5             | back | 91.0           | 0.303                 | 0.135    | 1.094                  | 1.099                       | 0.162             |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 13.0                                | 12.74                         | 13.0                                | 12.88                         | 0.17             | 15 mm                | MIMO            | 0697M                | 58.5             | back | 91.0           | 0.344                 | 0.150    | 1.062                  | 1.099                       | 0.175             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |     |          |         |                 |                                     |                               |                                     |                               |                  | Body                 |                 |                      |                  |      |                |                       |          |                        |                             |                   |        |
| Spatial Peak                             |     |          |         |                 |                                     |                               |                                     |                               |                  | 1.6 W/kg (mW/g)      |                 |                      |                  |      |                |                       |          |                        |                             |                   |        |
| Uncontrolled Exposure/General Population |     |          |         |                 |                                     |                               |                                     |                               |                  | averaged over 1 gram |                 |                      |                  |      |                |                       |          |                        |                             |                   |        |

Note: NII MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz and 5 GHz WLAN. 2.4 GHz WIFI was not transmitting during the above evaluations.

|                                      |                                                                                                                                                                                                  |                               |                                        |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                   | <br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                               | DUT Type:<br>Portable Handset | Page 216 of 305                        |



**Table 11-42**  
**DSS Body-Worn SAR**

| MEASUREMENT RESULTS                                                                               |     |           |         |                             |                       |                  |                                                 |                      |                  |      |                |          |                             |                             |                   |        |
|---------------------------------------------------------------------------------------------------|-----|-----------|---------|-----------------------------|-----------------------|------------------|-------------------------------------------------|----------------------|------------------|------|----------------|----------|-----------------------------|-----------------------------|-------------------|--------|
| FREQUENCY                                                                                         |     | Mode      | Service | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Spacing                                         | Device Serial Number | Data Rate (Mbps) | Side | Duty Cycle (%) | SAR (1g) | Scaling Factor (Cond Power) | Scaling Factor (Duty Cycle) | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch. |           |         |                             |                       |                  |                                                 |                      |                  |      |                | (W/kg)   |                             |                             | (W/kg)            |        |
| 2480                                                                                              | 78  | Bluetooth | FHSS    | 16.5                        | 16.26                 | -0.10            | 15 mm                                           | 1175M                | 1                | back | 77.3           | 0.033    | 1.057                       | 1.294                       | 0.045             | A86    |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |     |           |         |                             |                       |                  | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                      |                  |      |                |          |                             |                             |                   |        |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 217 of 305                                                                       |                                        |

## 11.3 Standalone Hotspot SAR Data

**Table 11-43**  
**GPRS/UMTS/CDMA Hotspot SAR Data**

| MEASUREMENT RESULTS                      |      |                  |             |                             |                       |                  |         |              |                      |                      |            |        |          |                |                   |        |
|------------------------------------------|------|------------------|-------------|-----------------------------|-----------------------|------------------|---------|--------------|----------------------|----------------------|------------|--------|----------|----------------|-------------------|--------|
| FREQUENCY                                |      | Mode             | Service     | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Spacing | Antenna Site | Device Serial Number | # of Time Slots      | Duty Cycle | Side   | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                      | Ch.  |                  |             |                             |                       |                  |         |              |                      |                      |            |        | (W/kg)   |                | (W/kg)            |        |
| 820.10                                   | 564  | CDMA BC10 (990S) | EVDO Rev. 0 | 26.0                        | 24.38                 | -0.02            | 10 mm   | 27           | 0120M                | N/A                  | 1:1        | back   | 0.799    | 1.452          | 1.160             | A31    |
| 820.10                                   | 564  | CDMA BC10 (990S) | EVDO Rev. 0 | 26.0                        | 24.38                 | -0.05            | 10 mm   | 27           | 0120M                | N/A                  | 1:1        | front  | 0.529    | 1.452          | 0.768             |        |
| 820.10                                   | 564  | CDMA BC10 (990S) | EVDO Rev. 0 | 26.0                        | 24.38                 | -0.09            | 10 mm   | 27           | 0120M                | N/A                  | 1:1        | bottom | 0.400    | 1.452          | 0.581             |        |
| 820.10                                   | 564  | CDMA BC10 (990S) | EVDO Rev. 0 | 26.0                        | 24.38                 | 0.02             | 10 mm   | 27           | 0120M                | N/A                  | 1:1        | right  | 0.060    | 1.452          | 0.087             |        |
| 820.10                                   | 564  | CDMA BC10 (990S) | EVDO Rev. 0 | 26.0                        | 24.38                 | -0.03            | 10 mm   | 27           | 0120M                | N/A                  | 1:1        | left   | 0.226    | 1.452          | 0.328             |        |
| 824.70                                   | 1013 | CDMA BC0 (922H)  | EVDO Rev. 0 | 25.8                        | 24.61                 | 0.03             | 10 mm   | 27           | 0120M                | N/A                  | 1:1        | back   | 0.626    | 1.315          | 0.823             |        |
| 836.52                                   | 384  | CDMA BC0 (922H)  | EVDO Rev. 0 | 25.8                        | 24.38                 | 0.04             | 10 mm   | 27           | 0120M                | N/A                  | 1:1        | back   | 0.641    | 1.387          | 0.889             | A33    |
| 848.31                                   | 777  | CDMA BC0 (922H)  | EVDO Rev. 0 | 25.8                        | 24.21                 | 0.01             | 10 mm   | 27           | 0120M                | N/A                  | 1:1        | back   | 0.571    | 1.442          | 0.823             |        |
| 836.52                                   | 384  | CDMA BC0 (922H)  | EVDO Rev. 0 | 25.8                        | 24.38                 | -0.01            | 10 mm   | 27           | 0120M                | N/A                  | 1:1        | front  | 0.460    | 1.387          | 0.638             |        |
| 836.52                                   | 384  | CDMA BC0 (922H)  | EVDO Rev. 0 | 25.8                        | 24.38                 | -0.01            | 10 mm   | 27           | 0120M                | N/A                  | 1:1        | bottom | 0.366    | 1.387          | 0.508             |        |
| 836.52                                   | 384  | CDMA BC0 (922H)  | EVDO Rev. 0 | 25.8                        | 24.38                 | 0.03             | 10 mm   | 27           | 0120M                | N/A                  | 1:1        | right  | 0.045    | 1.387          | 0.062             |        |
| 836.52                                   | 384  | CDMA BC0 (922H)  | EVDO Rev. 0 | 25.8                        | 24.38                 | -0.01            | 10 mm   | 27           | 0120M                | N/A                  | 1:1        | left   | 0.211    | 1.387          | 0.203             |        |
| 1880.00                                  | 600  | PCS CDMA         | EVDO Rev. 0 | 19.0                        | 18.70                 | -0.02            | 10 mm   | 35           | 0100M                | N/A                  | 1:1        | back   | 0.534    | 1.072          | 0.572             |        |
| 1880.00                                  | 600  | PCS CDMA         | EVDO Rev. 0 | 19.0                        | 18.70                 | 0.00             | 10 mm   | 35           | 0100M                | N/A                  | 1:1        | front  | 0.362    | 1.072          | 0.388             |        |
| 1851.25                                  | 25   | PCS CDMA         | EVDO Rev. 0 | 19.0                        | 18.99                 | 0.03             | 10 mm   | 35           | 0100M                | N/A                  | 1:1        | bottom | 0.876    | 1.002          | 0.878             |        |
| 1880.00                                  | 600  | PCS CDMA         | EVDO Rev. 0 | 19.0                        | 18.70                 | 0.04             | 10 mm   | 35           | 0100M                | N/A                  | 1:1        | bottom | 0.913    | 1.072          | 0.979             |        |
| 1908.75                                  | 1175 | PCS CDMA         | EVDO Rev. 0 | 19.0                        | 18.93                 | -0.01            | 10 mm   | 35           | 0100M                | N/A                  | 1:1        | bottom | 1.080    | 1.016          | 1.097             | A35    |
| 1880.00                                  | 600  | PCS CDMA         | EVDO Rev. 0 | 19.0                        | 18.70                 | 0.01             | 10 mm   | 35           | 0100M                | N/A                  | 1:1        | right  | 0.066    | 1.072          | 0.071             |        |
| 1880.00                                  | 600  | PCS CDMA         | EVDO Rev. 0 | 19.0                        | 18.70                 | 0.03             | 10 mm   | 35           | 0100M                | N/A                  | 1:1        | left   | 0.050    | 1.072          | 0.054             |        |
| 824.20                                   | 128  | GSM 850          | GPRS        | 30.5                        | 29.71                 | 0.00             | 10 mm   | N/A          | 0120M                | 3                    | 1:2.76     | back   | 0.574    | 1.199          | 0.688             |        |
| 836.60                                   | 190  | GSM 850          | GPRS        | 30.5                        | 29.42                 | 0.17             | 10 mm   | N/A          | 0120M                | 3                    | 1:2.76     | back   | 0.668    | 1.282          | 0.856             | A37    |
| 848.80                                   | 251  | GSM 850          | GPRS        | 30.5                        | 29.81                 | -0.01            | 10 mm   | N/A          | 0120M                | 3                    | 1:2.76     | back   | 0.547    | 1.172          | 0.641             |        |
| 836.60                                   | 190  | GSM 850          | GPRS        | 30.5                        | 29.42                 | -0.06            | 10 mm   | N/A          | 0120M                | 3                    | 1:2.76     | front  | 0.295    | 1.282          | 0.378             |        |
| 836.60                                   | 190  | GSM 850          | GPRS        | 30.5                        | 29.42                 | 0.09             | 10 mm   | N/A          | 0120M                | 3                    | 1:2.76     | bottom | 0.227    | 1.282          | 0.291             |        |
| 836.60                                   | 190  | GSM 850          | GPRS        | 30.5                        | 29.42                 | 0.09             | 10 mm   | N/A          | 0120M                | 3                    | 1:2.76     | right  | 0.033    | 1.282          | 0.042             |        |
| 836.60                                   | 190  | GSM 850          | GPRS        | 30.5                        | 29.42                 | 0.03             | 10 mm   | N/A          | 0120M                | 3                    | 1:2.76     | left   | 0.134    | 1.282          | 0.172             |        |
| 1880.00                                  | 661  | GSM 1900         | GPRS        | 22.8                        | 22.10                 | 0.02             | 10 mm   | N/A          | 0100M                | 4                    | 1:2.076    | back   | 0.315    | 1.175          | 0.370             |        |
| 1880.00                                  | 661  | GSM 1900         | GPRS        | 22.8                        | 22.10                 | -0.01            | 10 mm   | N/A          | 0100M                | 4                    | 1:2.076    | front  | 0.255    | 1.175          | 0.300             |        |
| 1850.20                                  | 512  | GSM 1900         | GPRS        | 22.8                        | 22.26                 | 0.03             | 10 mm   | N/A          | 0100M                | 4                    | 1:2.076    | bottom | 0.630    | 1.132          | 0.713             |        |
| 1880.00                                  | 661  | GSM 1900         | GPRS        | 22.8                        | 22.10                 | -0.01            | 10 mm   | N/A          | 0100M                | 4                    | 1:2.076    | bottom | 0.617    | 1.175          | 0.725             |        |
| 1900.80                                  | 810  | GSM 1900         | GPRS        | 22.8                        | 22.20                 | 0.01             | 10 mm   | N/A          | 0100M                | 4                    | 1:2.076    | bottom | 0.708    | 1.148          | 0.813             | A39    |
| 1880.00                                  | 661  | GSM 1900         | GPRS        | 22.8                        | 22.10                 | 0.19             | 10 mm   | N/A          | 0100M                | 4                    | 1:2.076    | right  | 0.037    | 1.175          | 0.043             |        |
| 1880.00                                  | 661  | GSM 1900         | GPRS        | 22.8                        | 22.10                 | 0.13             | 10 mm   | N/A          | 0100M                | 4                    | 1:2.076    | left   | 0.036    | 1.175          | 0.042             |        |
| 826.40                                   | 4132 | UMTS 850         | RMC         | 25.8                        | 25.18                 | 0.00             | 10 mm   | 27           | 0120M                | N/A                  | 1:1        | back   | 0.561    | 1.153          | 0.647             |        |
| 836.60                                   | 4183 | UMTS 850         | RMC         | 25.8                        | 25.20                 | 0.04             | 10 mm   | 27           | 0120M                | N/A                  | 1:1        | back   | 0.628    | 1.148          | 0.721             | A41    |
| 846.60                                   | 4233 | UMTS 850         | RMC         | 25.8                        | 24.85                 | 0.02             | 10 mm   | 27           | 0120M                | N/A                  | 1:1        | back   | 0.473    | 1.245          | 0.589             |        |
| 836.60                                   | 4183 | UMTS 850         | RMC         | 25.8                        | 25.20                 | -0.01            | 10 mm   | 27           | 0120M                | N/A                  | 1:1        | front  | 0.434    | 1.148          | 0.498             |        |
| 836.60                                   | 4183 | UMTS 850         | RMC         | 25.8                        | 25.20                 | -0.02            | 10 mm   | 27           | 0120M                | N/A                  | 1:1        | bottom | 0.353    | 1.148          | 0.405             |        |
| 836.60                                   | 4183 | UMTS 850         | RMC         | 25.8                        | 25.20                 | 0.02             | 10 mm   | 27           | 0120M                | N/A                  | 1:1        | right  | 0.042    | 1.148          | 0.048             |        |
| 836.60                                   | 4183 | UMTS 850         | RMC         | 25.8                        | 25.20                 | -0.02            | 10 mm   | 27           | 0120M                | N/A                  | 1:1        | left   | 0.206    | 1.148          | 0.236             |        |
| 1752.60                                  | 1513 | UMTS 1750        | RMC         | 20.0                        | 19.80                 | 0.01             | 10 mm   | 9            | 0100M                | N/A                  | 1:1        | back   | 0.341    | 1.047          | 0.357             |        |
| 1752.60                                  | 1513 | UMTS 1750        | RMC         | 20.0                        | 19.80                 | 0.02             | 10 mm   | 9            | 0100M                | N/A                  | 1:1        | front  | 0.273    | 1.047          | 0.286             |        |
| 1712.40                                  | 1312 | UMTS 1750        | RMC         | 20.0                        | 19.32                 | 0.03             | 10 mm   | 9            | 0100M                | N/A                  | 1:1        | bottom | 0.927    | 1.169          | 1.084             |        |
| 1732.40                                  | 1412 | UMTS 1750        | RMC         | 20.0                        | 19.24                 | 0.01             | 10 mm   | 9            | 0100M                | N/A                  | 1:1        | bottom | 0.991    | 1.191          | 1.180             | A43    |
| 1752.60                                  | 1513 | UMTS 1750        | RMC         | 20.0                        | 19.80                 | 0.00             | 10 mm   | 9            | 0100M                | N/A                  | 1:1        | bottom | 0.968    | 1.047          | 1.013             |        |
| 1752.60                                  | 1513 | UMTS 1750        | RMC         | 20.0                        | 19.80                 | 0.10             | 10 mm   | 9            | 0100M                | N/A                  | 1:1        | right  | 0.055    | 1.047          | 0.058             |        |
| 1752.60                                  | 1513 | UMTS 1750        | RMC         | 20.0                        | 19.80                 | -0.04            | 10 mm   | 9            | 0100M                | N/A                  | 1:1        | left   | 0.053    | 1.047          | 0.055             |        |
| 1880.00                                  | 9400 | UMTS 1900        | RMC         | 19.0                        | 18.26                 | 0.01             | 10 mm   | 109          | 0116M                | N/A                  | 1:1        | back   | 0.427    | 1.186          | 0.506             |        |
| 1880.00                                  | 9400 | UMTS 1900        | RMC         | 19.0                        | 18.26                 | 0.00             | 10 mm   | 109          | 0116M                | N/A                  | 1:1        | front  | 0.288    | 1.186          | 0.342             |        |
| 1852.40                                  | 9262 | UMTS 1900        | RMC         | 19.0                        | 18.59                 | 0.03             | 10 mm   | 109          | 0116M                | N/A                  | 1:1        | bottom | 0.840    | 1.099          | 0.923             |        |
| 1880.00                                  | 9400 | UMTS 1900        | RMC         | 19.0                        | 18.26                 | -0.01            | 10 mm   | 109          | 0116M                | N/A                  | 1:1        | bottom | 0.854    | 1.186          | 1.013             |        |
| 1907.60                                  | 9538 | UMTS 1900        | RMC         | 19.0                        | 18.49                 | -0.02            | 10 mm   | 109          | 0116M                | N/A                  | 1:1        | bottom | 0.975    | 1.125          | 1.097             | A45    |
| 1880.00                                  | 9400 | UMTS 1900        | RMC         | 19.0                        | 18.26                 | -0.04            | 10 mm   | 109          | 0116M                | N/A                  | 1:1        | right  | 0.043    | 1.186          | 0.051             |        |
| 1880.00                                  | 9400 | UMTS 1900        | RMC         | 19.0                        | 18.26                 | -0.07            | 10 mm   | 109          | 0116M                | N/A                  | 1:1        | left   | 0.046    | 1.186          | 0.055             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |      |                  |             |                             |                       |                  |         |              |                      | Body                 |            |        |          |                |                   |        |
| Spatial Peak                             |      |                  |             |                             |                       |                  |         |              |                      | 1.6 W/kg (mW/g)      |            |        |          |                |                   |        |
| Uncontrolled Exposure/General Population |      |                  |             |                             |                       |                  |         |              |                      | averaged over 1 gram |            |        |          |                |                   |        |

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 218 of 305                        |

**Table 11-44**  
**LTE Band 71 Hotspot SAR**

| MEASUREMENT RESULTS                                                                               |        |      |                 |                             |                       |                  |          |                                                 |                      |            |         |           |         |       |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|--------|------|-----------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------------|----------------------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |        | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Antenna State                                   | Device Serial Number | Modulation | RB Size | RB Offset | Spacing | Side  | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |
| MHz                                                                                               | Ch.    |      |                 |                             |                       |                  |          |                                                 |                      |            |         |           |         |       |            | (W/kg)   |                | (W/kg)            |        |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.8                  | 25.17            | 0.00     | 0                                               | 3                    | 0122M      | QPSK    | 1         | 0       | 10 mm | back       | 1:1      | 0.333          | 1.156             | 0.385  | A47 |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.8                  | 24.20            | 0.02     | 1                                               | 3                    | 0122M      | QPSK    | 50        | 0       | 10 mm | back       | 1:1      | 0.281          | 1.148             | 0.323  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.8                  | 25.17            | -0.04    | 0                                               | 3                    | 0122M      | QPSK    | 1         | 0       | 10 mm | front      | 1:1      | 0.204          | 1.156             | 0.236  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.8                  | 24.20            | 0.01     | 1                                               | 3                    | 0122M      | QPSK    | 50        | 0       | 10 mm | front      | 1:1      | 0.164          | 1.148             | 0.188  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.8                  | 25.17            | 0.04     | 0                                               | 4                    | 0122M      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1      | 0.173          | 1.156             | 0.200  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.8                  | 24.20            | 0.00     | 1                                               | 4                    | 0122M      | QPSK    | 50        | 0       | 10 mm | bottom     | 1:1      | 0.145          | 1.148             | 0.166  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.8                  | 25.17            | -0.17    | 0                                               | 4                    | 0122M      | QPSK    | 1         | 0       | 10 mm | right      | 1:1      | 0.136          | 1.156             | 0.157  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.8                  | 24.20            | -0.19    | 1                                               | 4                    | 0122M      | QPSK    | 50        | 0       | 10 mm | right      | 1:1      | 0.105          | 1.148             | 0.121  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.8                  | 25.17            | -0.07    | 0                                               | 3                    | 0122M      | QPSK    | 1         | 0       | 10 mm | left       | 1:1      | 0.259          | 1.156             | 0.299  |     |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.8                  | 24.20            | -0.06    | 1                                               | 3                    | 0122M      | QPSK    | 50        | 0       | 10 mm | left       | 1:1      | 0.212          | 1.148             | 0.243  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |        |      |                 |                             |                       |                  |          | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                      |            |         |           |         |       |            |          |                |                   |        |     |

**Table 11-45**  
**LTE Band 12 Hotspot SAR**

| MEASUREMENT RESULTS                                      |       |     |             |                 |                             |                       |                  |                                                 |               |                      |            |         |           |         |        |            |          |                |                   |        |
|----------------------------------------------------------|-------|-----|-------------|-----------------|-----------------------------|-----------------------|------------------|-------------------------------------------------|---------------|----------------------|------------|---------|-----------|---------|--------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                |       |     | Mode        | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB]                                        | Antenna State | Device Serial Number | Modulation | RB Size | RB Offset | Spacing | Side   | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
|                                                          |       |     |             |                 |                             |                       |                  |                                                 |               |                      |            |         |           |         |        |            | (W/kg)   |                | (W/kg)            |        |
| 707.50                                                   | 23095 | Mid | LTE Band 12 | 10              | 25.8                        | 25.23                 | -0.01            | 0                                               | 1             | 0122M                | QPSK       | 1       | 0         | 10 mm   | back   | 1:1        | 0.368    | 1.140          | 0.420             | A49    |
| 707.50                                                   | 23095 | Mid | LTE Band 12 | 10              | 24.8                        | 24.31                 | 0.01             | 1                                               | 1             | 0122M                | QPSK       | 25      | 12        | 10 mm   | back   | 1:1        | 0.311    | 1.119          | 0.348             |        |
| 707.50                                                   | 23095 | Mid | LTE Band 12 | 10              | 25.8                        | 25.23                 | -0.01            | 0                                               | 108           | 0122M                | QPSK       | 1       | 0         | 10 mm   | front  | 1:1        | 0.227    | 1.140          | 0.259             |        |
| 707.50                                                   | 23095 | Mid | LTE Band 12 | 10              | 24.8                        | 24.31                 | -0.01            | 1                                               | 108           | 0122M                | QPSK       | 25      | 12        | 10 mm   | front  | 1:1        | 0.197    | 1.119          | 0.220             |        |
| 707.50                                                   | 23095 | Mid | LTE Band 12 | 10              | 25.8                        | 25.23                 | 0.01             | 0                                               | 108           | 0122M                | QPSK       | 1       | 0         | 10 mm   | bottom | 1:1        | 0.189    | 1.140          | 0.215             |        |
| 707.50                                                   | 23095 | Mid | LTE Band 12 | 10              | 24.8                        | 24.31                 | 0.05             | 1                                               | 108           | 0122M                | QPSK       | 25      | 12        | 10 mm   | bottom | 1:1        | 0.168    | 1.119          | 0.188             |        |
| 707.50                                                   | 23095 | Mid | LTE Band 12 | 10              | 25.8                        | 25.23                 | 0.21             | 0                                               | 4             | 0122M                | QPSK       | 1       | 0         | 10 mm   | right  | 1:1        | 0.145    | 1.140          | 0.165             |        |
| 707.50                                                   | 23095 | Mid | LTE Band 12 | 10              | 24.8                        | 24.31                 | 0.08             | 1                                               | 4             | 0122M                | QPSK       | 25      | 12        | 10 mm   | right  | 1:1        | 0.122    | 1.119          | 0.137             |        |
| 707.50                                                   | 23095 | Mid | LTE Band 12 | 10              | 25.8                        | 25.23                 | -0.09            | 0                                               | 1             | 0122M                | QPSK       | 1       | 0         | 10 mm   | left   | 1:1        | 0.268    | 1.140          | 0.306             |        |
| 707.50                                                   | 23095 | Mid | LTE Band 12 | 10              | 24.8                        | 24.31                 | 0.04             | 1                                               | 1             | 0122M                | QPSK       | 25      | 12        | 10 mm   | left   | 1:1        | 0.241    | 1.119          | 0.270             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT                    |       |     |             |                 |                             |                       |                  | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |               |                      |            |         |           |         |        |            |          |                |                   |        |
| Spatial Peak<br>Uncontrolled Exposure/General Population |       |     |             |                 |                             |                       |                  |                                                 |               |                      |            |         |           |         |        |            |          |                |                   |        |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 219 of 305                                                                       |                                        |

**Table 11-46**  
**LTE Band 13 Hotspot SAR**

| MEASUREMENT RESULTS                                                                               |       |      |                 |                             |                       |                  |          |                                                 |                      |            |         |           |         |       |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|-------|------|-----------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------------|----------------------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |       | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Antenna State                                   | Device Serial Number | Modulation | RB Size | RB Offset | Spacing | Side  | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |
| MHz                                                                                               | Ch.   |      |                 |                             |                       |                  |          |                                                 |                      |            |         |           |         |       |            | (W/kg)   |                | (W/kg)            |        |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 25.8                  | 25.21            | -0.10    | 0                                               | 1                    | 0061M      | QPSK    | 1         | 25      | 10 mm | back       | 1:1      | 0.648          | 1.146             | 0.743  | A51 |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 24.8                  | 24.28            | 0.16     | 1                                               | 1                    | 0061M      | QPSK    | 25        | 0       | 10 mm | back       | 1:1      | 0.528          | 1.127             | 0.595  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 25.8                  | 25.21            | -0.07    | 0                                               | 1                    | 0061M      | QPSK    | 1         | 25      | 10 mm | front      | 1:1      | 0.482          | 1.146             | 0.552  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 24.8                  | 24.28            | -0.11    | 1                                               | 1                    | 0061M      | QPSK    | 25        | 0       | 10 mm | front      | 1:1      | 0.418          | 1.127             | 0.471  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 25.8                  | 25.21            | -0.13    | 0                                               | 1                    | 0061M      | QPSK    | 1         | 25      | 10 mm | bottom     | 1:1      | 0.377          | 1.146             | 0.432  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 24.8                  | 24.28            | -0.06    | 1                                               | 1                    | 0061M      | QPSK    | 25        | 0       | 10 mm | bottom     | 1:1      | 0.294          | 1.127             | 0.331  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 25.8                  | 25.21            | -0.15    | 0                                               | 1                    | 0061M      | QPSK    | 1         | 25      | 10 mm | right      | 1:1      | 0.088          | 1.146             | 0.101  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 24.8                  | 24.28            | -0.07    | 1                                               | 1                    | 0061M      | QPSK    | 25        | 0       | 10 mm | right      | 1:1      | 0.078          | 1.127             | 0.088  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 25.8                  | 25.21            | 0.15     | 0                                               | 1                    | 0061M      | QPSK    | 1         | 25      | 10 mm | left       | 1:1      | 0.282          | 1.146             | 0.323  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 24.8                  | 24.28            | 0.01     | 1                                               | 1                    | 0061M      | QPSK    | 25        | 0       | 10 mm | left       | 1:1      | 0.257          | 1.127             | 0.290  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |      |                 |                             |                       |                  |          | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                      |            |         |           |         |       |            |          |                |                   |        |     |

**Table 11-47**  
**LTE Band 14 Hotspot SAR**

| MEASUREMENT RESULTS                                                                               |       |      |                 |                             |                       |                  |          |                                                 |                      |            |         |           |         |       |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|-------|------|-----------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------------|----------------------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |       | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Antenna State                                   | Device Serial Number | Modulation | RB Size | RB Offset | Spacing | Side  | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |
| MHz                                                                                               | Ch.   |      |                 |                             |                       |                  |          |                                                 |                      |            |         |           |         |       |            | (W/kg)   |                | (W/kg)            |        |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 25.8                  | 25.06            | -0.02    | 0                                               | 52                   | 0122M      | QPSK    | 1         | 0       | 10 mm | back       | 1:1      | 0.574          | 1.186             | 0.681  | A53 |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 24.8                  | 24.07            | 0.01     | 1                                               | 52                   | 0122M      | QPSK    | 25        | 25      | 10 mm | back       | 1:1      | 0.431          | 1.183             | 0.510  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 25.8                  | 25.06            | -0.02    | 0                                               | 52                   | 0122M      | QPSK    | 1         | 0       | 10 mm | front      | 1:1      | 0.460          | 1.186             | 0.546  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 24.8                  | 24.07            | 0.01     | 1                                               | 52                   | 0122M      | QPSK    | 25        | 25      | 10 mm | front      | 1:1      | 0.333          | 1.183             | 0.394  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 25.8                  | 25.06            | -0.05    | 0                                               | 52                   | 0122M      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1      | 0.369          | 1.186             | 0.438  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 24.8                  | 24.07            | -0.10    | 1                                               | 52                   | 0122M      | QPSK    | 25        | 25      | 10 mm | bottom     | 1:1      | 0.293          | 1.183             | 0.347  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 25.8                  | 25.06            | 0.03     | 0                                               | 52                   | 0122M      | QPSK    | 1         | 0       | 10 mm | right      | 1:1      | 0.088          | 1.186             | 0.104  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 24.8                  | 24.07            | -0.12    | 1                                               | 52                   | 0122M      | QPSK    | 25        | 25      | 10 mm | right      | 1:1      | 0.052          | 1.183             | 0.062  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 25.8                  | 25.06            | 0.05     | 0                                               | 52                   | 0122M      | QPSK    | 1         | 0       | 10 mm | left       | 1:1      | 0.308          | 1.186             | 0.365  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 24.8                  | 24.07            | 0.00     | 1                                               | 52                   | 0122M      | QPSK    | 25        | 25      | 10 mm | left       | 1:1      | 0.199          | 1.183             | 0.235  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |      |                 |                             |                       |                  |          | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                      |            |         |           |         |       |            |          |                |                   |        |     |

|                                      |                                                                                                                                                                                                                                                                                            |                               |                                 |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   | <div><b>PCTEST</b><br/><small>Proud to be part of Hicom</small></div> <div>SAR EVALUATION REPORT</div> <div></div> |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01_A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                         | DUT Type:<br>Portable Handset | Page 220 of 305                 |

**Table 11-48**  
**LTE Band 26 (Cell) Hotspot SAR**

| MEASUREMENT RESULTS                                                                               |       |      |                    |                             |                       |                  |          |                                                 |                      |            |         |           |         |       |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|-------|------|--------------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------------|----------------------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |       | Mode | Bandwidth [MHz]    | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Antenna State                                   | Device Serial Number | Modulation | RB Size | RB Offset | Spacing | Side  | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |
| MHz                                                                                               | Ch.   |      |                    |                             |                       |                  |          |                                                 |                      |            |         |           |         |       |            | (W/kg)   |                | (W/kg)            |        |     |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 25.8                  | 25.25            | 0.02     | 0                                               | 66                   | 0061M      | QPSK    | 1         | 36      | 10 mm | back       | 1:1      | 0.611          | 1.135             | 0.693  | A55 |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 24.8                  | 24.24            | 0.03     | 1                                               | 66                   | 0061M      | QPSK    | 36        | 18      | 10 mm | back       | 1:1      | 0.491          | 1.138             | 0.559  |     |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 25.8                  | 25.25            | -0.02    | 0                                               | 66                   | 0061M      | QPSK    | 1         | 36      | 10 mm | front      | 1:1      | 0.434          | 1.135             | 0.493  |     |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 24.8                  | 24.24            | 0.01     | 1                                               | 66                   | 0061M      | QPSK    | 36        | 18      | 10 mm | front      | 1:1      | 0.349          | 1.138             | 0.397  |     |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 25.8                  | 25.25            | -0.10    | 0                                               | 66                   | 0061M      | QPSK    | 1         | 36      | 10 mm | bottom     | 1:1      | 0.318          | 1.135             | 0.361  |     |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 24.8                  | 24.24            | 0.02     | 1                                               | 66                   | 0061M      | QPSK    | 36        | 18      | 10 mm | bottom     | 1:1      | 0.256          | 1.138             | 0.291  |     |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 25.8                  | 25.25            | -0.01    | 0                                               | 66                   | 0061M      | QPSK    | 1         | 36      | 10 mm | right      | 1:1      | 0.064          | 1.135             | 0.073  |     |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 24.8                  | 24.24            | 0.07     | 1                                               | 66                   | 0061M      | QPSK    | 36        | 18      | 10 mm | right      | 1:1      | 0.050          | 1.138             | 0.057  |     |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 25.8                  | 25.25            | 0.01     | 0                                               | 66                   | 0061M      | QPSK    | 1         | 36      | 10 mm | left       | 1:1      | 0.226          | 1.135             | 0.257  |     |
| 831.50                                                                                            | 26865 | Mid  | LTE Band 26 (Cell) | 15                          | 24.8                  | 24.24            | 0.00     | 1                                               | 66                   | 0061M      | QPSK    | 36        | 18      | 10 mm | left       | 1:1      | 0.182          | 1.138             | 0.207  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |      |                    |                             |                       |                  |          | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                      |            |         |           |         |       |            |          |                |                   |        |     |

**Table 11-49**  
**LTE Band 5 (Cell) Hotspot SAR**

| MEASUREMENT RESULTS                                                                               |                      |           |       |      |                    |                                   |                          |                     |          |                                                 |                            |            |         |           |         |       |            |          |                   |                      |        |     |
|---------------------------------------------------------------------------------------------------|----------------------|-----------|-------|------|--------------------|-----------------------------------|--------------------------|---------------------|----------|-------------------------------------------------|----------------------------|------------|---------|-----------|---------|-------|------------|----------|-------------------|----------------------|--------|-----|
| 1 CC Uplink  <br>2 CC Uplink                                                                      | Component<br>Carrier | FREQUENCY |       | Mode | Bandwidth<br>[MHz] | Maximum<br>Allowed<br>Power [dBm] | Conducted<br>Power [dBm] | Power<br>Drift [dB] | MPR [dB] | Antenna<br>State                                | Device<br>Serial<br>Number | Modulation | RB Size | RB Offset | Spacing | Side  | Duty Cycle | SAR (1g) | Scaling<br>Factor | Reported SAR<br>(1g) | Plot # |     |
|                                                                                                   |                      | MHz       | Ch.   |      |                    |                                   |                          |                     |          |                                                 |                            |            |         |           |         |       |            | (W/kg)   |                   | (W/kg)               |        |     |
| 1 CC Uplink                                                                                       | N/A                  | 836.50    | 20525 | Mid  | LTE Band 5 (Cell)  | 10                                | 25.8                     | 25.15               | -0.01    | 0                                               | 65                         | 0086M      | QPSK    | 1         | 0       | 10 mm | back       | 1:1      | 0.559             | 1.161                | 0.649  |     |
| 1 CC Uplink                                                                                       | N/A                  | 836.50    | 20525 | Mid  | LTE Band 5 (Cell)  | 10                                | 24.8                     | 24.16               | -0.03    | 1                                               | 65                         | 0086M      | QPSK    | 25        | 12      | 10 mm | back       | 1:1      | 0.480             | 1.159                | 0.556  |     |
| 2 CC Uplink                                                                                       | PCC                  | 836.50    | 20525 | Mid  | LTE Band 5 (Cell)  | 10                                | 25.8                     | 25.35               | -0.03    | 0                                               | 65                         | 0086M      | QPSK    | 1         | 0       | 10 mm | back       | 1:1      | 0.613             | 1.109                | 0.680  | A57 |
|                                                                                                   | SCC                  | 829.30    | 20453 | Mid  | LTE Band 5 (Cell)  | 5                                 |                          |                     |          |                                                 |                            |            | QPSK    | 1         | 24      |       |            |          |                   |                      |        |     |
| 1 CC Uplink                                                                                       | N/A                  | 836.50    | 20525 | Mid  | LTE Band 5 (Cell)  | 10                                | 25.8                     | 25.15               | -0.01    | 0                                               | 65                         | 0086M      | QPSK    | 1         | 0       | 10 mm | front      | 1:1      | 0.435             | 1.161                | 0.505  |     |
| 1 CC Uplink                                                                                       | N/A                  | 836.50    | 20525 | Mid  | LTE Band 5 (Cell)  | 10                                | 24.8                     | 24.16               | 0.02     | 1                                               | 65                         | 0086M      | QPSK    | 25        | 12      | 10 mm | front      | 1:1      | 0.375             | 1.159                | 0.435  |     |
| 1 CC Uplink                                                                                       | N/A                  | 836.50    | 20525 | Mid  | LTE Band 5 (Cell)  | 10                                | 25.8                     | 25.15               | -0.04    | 0                                               | 66                         | 0086M      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1      | 0.328             | 1.161                | 0.381  |     |
| 1 CC Uplink                                                                                       | N/A                  | 836.50    | 20525 | Mid  | LTE Band 5 (Cell)  | 10                                | 24.8                     | 24.16               | -0.01    | 1                                               | 66                         | 0086M      | QPSK    | 25        | 12      | 10 mm | bottom     | 1:1      | 0.263             | 1.159                | 0.305  |     |
| 1 CC Uplink                                                                                       | N/A                  | 836.50    | 20525 | Mid  | LTE Band 5 (Cell)  | 10                                | 25.8                     | 25.15               | 0.05     | 0                                               | 65                         | 0086M      | QPSK    | 1         | 0       | 10 mm | right      | 1:1      | 0.057             | 1.161                | 0.066  |     |
| 1 CC Uplink                                                                                       | N/A                  | 836.50    | 20525 | Mid  | LTE Band 5 (Cell)  | 10                                | 24.8                     | 24.16               | -0.02    | 1                                               | 65                         | 0086M      | QPSK    | 25        | 12      | 10 mm | right      | 1:1      | 0.051             | 1.159                | 0.059  |     |
| 1 CC Uplink                                                                                       | N/A                  | 836.50    | 20525 | Mid  | LTE Band 5 (Cell)  | 10                                | 25.8                     | 25.15               | 0.04     | 0                                               | 65                         | 0086M      | QPSK    | 1         | 0       | 10 mm | left       | 1:1      | 0.212             | 1.161                | 0.246  |     |
| 1 CC Uplink                                                                                       | N/A                  | 836.50    | 20525 | Mid  | LTE Band 5 (Cell)  | 10                                | 24.8                     | 24.16               | 0.03     | 1                                               | 65                         | 0086M      | QPSK    | 25        | 12      | 10 mm | left       | 1:1      | 0.171             | 1.159                | 0.198  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |                      |           |       |      |                    |                                   |                          |                     |          | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                            |            |         |           |         |       |            |          |                   |                      |        |     |

|                                             |                                                                                                                                                                                                                             |                                      |                                                                                       |                     |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|---------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b> |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                   | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Quality Manager     |
|                                             |                                                                                                                                                                                                                             |                                      |                                                                                       | Page 221 of 305     |

**Table 11-50**  
**LTE Band 66 (AWS) Hotspot SAR**

| MEASUREMENT RESULTS                      |                   |           |        |      |                   |                             |                       |                  |          |                                         |                      |            |         |           |         |       |            |          |                |                   |        |     |
|------------------------------------------|-------------------|-----------|--------|------|-------------------|-----------------------------|-----------------------|------------------|----------|-----------------------------------------|----------------------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| 1 CC Uplink   2 CC Uplink                | Component Carrier | FREQUENCY |        | Mode | Bandwidth [MHz]   | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Antenna State                           | Device Serial Number | Modulation | RB Size | RB Offset | Spacing | Side  | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |
|                                          |                   | MHz       | Ch.    |      |                   |                             |                       |                  |          |                                         |                      |            |         |           |         |       |            | (W/kg)   |                | (W/kg)            |        |     |
| 1 CC Uplink                              | N/A               | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 20                          | 20.0                  | 19.61            | 0.01     | 0                                       | 108                  | 0071M      | QPSK    | 1         | 50      | 10 mm | back       | 1:1      | 0.495          | 1.094             | 0.542  |     |
| 1 CC Uplink                              | N/A               | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 20                          | 20.0                  | 19.66            | -0.02    | 0                                       | 108                  | 0071M      | QPSK    | 50        | 25      | 10 mm | back       | 1:1      | 0.527          | 1.081             | 0.570  |     |
| 1 CC Uplink                              | N/A               | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 20                          | 20.0                  | 19.61            | 0.01     | 0                                       | 109                  | 0071M      | QPSK    | 1         | 50      | 10 mm | front      | 1:1      | 0.351          | 1.094             | 0.384  |     |
| 1 CC Uplink                              | N/A               | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 20                          | 20.0                  | 19.66            | 0.00     | 0                                       | 109                  | 0071M      | QPSK    | 50        | 25      | 10 mm | front      | 1:1      | 0.376          | 1.081             | 0.406  |     |
| 1 CC Uplink                              | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 20.0                  | 19.58            | -0.01    | 0                                       | 11                   | 0071M      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1      | 0.784          | 1.102             | 0.864  |     |
| 1 CC Uplink                              | N/A               | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 20                          | 20.0                  | 19.61            | -0.02    | 0                                       | 5                    | 0071M      | QPSK    | 1         | 50      | 10 mm | bottom     | 1:1      | 0.914          | 1.094             | 1.000  |     |
| 1 CC Uplink                              | N/A               | 1775.00   | 132622 | High | LTE Band 66 (AWS) | 10                          | 20.0                  | 19.33            | 0.01     | 0                                       | 6                    | 0071M      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1      | 0.939          | 1.167             | 1.096  |     |
| 1 CC Uplink                              | N/A               | 1770.00   | 132572 | High | LTE Band 66 (AWS) | 20                          | 20.0                  | 19.37            | 0.00     | 0                                       | 6                    | 0071M      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1      | 0.963          | 1.156             | 1.113  |     |
| 1 CC Uplink                              | N/A               | 1770.00   | 132572 | High | LTE Band 66 (AWS) | 20                          | 20.0                  | 19.43            | -0.03    | 0                                       | 6                    | 0071M      | QPSK    | 1         | 50      | 10 mm | bottom     | 1:1      | 0.957          | 1.140             | 1.091  |     |
| 1 CC Uplink                              | N/A               | 1720.00   | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 20.0                  | 19.58            | 0.00     | 0                                       | 11                   | 0071M      | QPSK    | 50        | 0       | 10 mm | bottom     | 1:1      | 0.855          | 1.102             | 0.942  |     |
| 1 CC Uplink                              | N/A               | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 20                          | 20.0                  | 19.66            | 0.01     | 0                                       | 5                    | 0071M      | QPSK    | 50        | 25      | 10 mm | bottom     | 1:1      | 0.963          | 1.081             | 1.041  |     |
| 1 CC Uplink                              | N/A               | 1770.00   | 132572 | High | LTE Band 66 (AWS) | 20                          | 20.0                  | 19.64            | -0.03    | 0                                       | 6                    | 0071M      | QPSK    | 50        | 50      | 10 mm | bottom     | 1:1      | 0.983          | 1.086             | 1.068  |     |
| 1 CC Uplink                              | N/A               | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 20                          | 20.0                  | 19.56            | 0.01     | 0                                       | 5                    | 0071M      | QPSK    | 100       | 0       | 10 mm | bottom     | 1:1      | 0.946          | 1.107             | 1.047  |     |
| 2 CC Uplink CA_66B                       | PCC               | 1775.00   | 132622 | High | LTE Band 66 (AWS) | 10                          | 20.0                  | 19.30            | 0.03     | 0                                       | 6                    | 0071M      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1      | 0.927          | 1.175             | 1.089  |     |
|                                          | SCC               | 1765.10   | 132523 | High | LTE Band 66 (AWS) | 10                          |                       |                  |          |                                         |                      |            | QPSK    | 1         | 49      |       |            |          |                |                   |        |     |
| 2 CC Uplink CA_66C                       | PCC               | 1770.00   | 132572 | High | LTE Band 66 (AWS) | 20                          | 20.0                  | 19.55            | -0.02    | 0                                       | 6                    | 0071M      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1      | 1.020          | 1.109             | 1.131  | A59 |
|                                          | SCC               | 1750.20   | 132374 | High | LTE Band 66 (AWS) | 20                          |                       |                  |          |                                         |                      |            | QPSK    | 1         | 99      |       |            |          |                |                   |        |     |
| 1 CC Uplink                              | N/A               | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 20                          | 20.0                  | 19.61            | 0.04     | 0                                       | 109                  | 0071M      | QPSK    | 1         | 50      | 10 mm | right      | 1:1      | 0.070          | 1.094             | 0.077  |     |
| 1 CC Uplink                              | N/A               | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 20                          | 20.0                  | 19.66            | 0.04     | 0                                       | 109                  | 0071M      | QPSK    | 50        | 25      | 10 mm | right      | 1:1      | 0.075          | 1.081             | 0.081  |     |
| 1 CC Uplink                              | N/A               | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 20                          | 20.0                  | 19.61            | 0.04     | 0                                       | 109                  | 0071M      | QPSK    | 1         | 50      | 10 mm | left       | 1:1      | 0.062          | 1.094             | 0.068  |     |
| 1 CC Uplink                              | N/A               | 1745.00   | 132322 | Mid  | LTE Band 66 (AWS) | 20                          | 20.0                  | 19.66            | 0.02     | 0                                       | 109                  | 0071M      | QPSK    | 50        | 25      | 10 mm | left       | 1:1      | 0.066          | 1.081             | 0.071  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |                   |           |        |      |                   |                             |                       |                  |          |                                         |                      |            |         |           |         |       |            |          |                |                   |        |     |
| Spatial Peak                             |                   |           |        |      |                   |                             |                       |                  |          | Body                                    |                      |            |         |           |         |       |            |          |                |                   |        |     |
| Uncontrolled Exposure/General Population |                   |           |        |      |                   |                             |                       |                  |          | 1.6 W/kg (mW/g)<br>averaged over 1 gram |                      |            |         |           |         |       |            |          |                |                   |        |     |

|                                      |                                                                                                                                                                                                                                                                                            |                               |                                 |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   | <div><b>PCTEST</b><br/><small>Proud to be part of VIAVI</small></div> <div>SAR EVALUATION REPORT</div> <div></div> |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01_A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                         | DUT Type:<br>Portable Handset | Page 222 of 305                 |

**Table 11-51**  
**LTE Band 25 (PCS) Hotspot SAR**

| MEASUREMENT RESULTS                                                                               |       |      |                   |                             |                       |                  |          |                                                 |                      |            |         |           |         |       |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|-------|------|-------------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------------|----------------------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |       | Mode | Bandwidth [MHz]   | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Antenna State                                   | Device Serial Number | Modulation | RB Size | RB Offset | Spacing | Side  | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |
| MHz                                                                                               | Ch.   |      |                   |                             |                       |                  |          |                                                 |                      |            |         |           |         |       |            | (W/kg)   |                | (W/kg)            |        |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 19.5                  | 19.36            | 0.02     | 0                                               | 109                  | 0060M      | QPSK    | 1         | 50      | 10 mm | back       | 1:1      | 0.548          | 1.033             | 0.566  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 19.5                  | 19.36            | 0.00     | 0                                               | 109                  | 0060M      | QPSK    | 50        | 0       | 10 mm | back       | 1:1      | 0.572          | 1.033             | 0.591  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 19.5                  | 19.36            | 0.02     | 0                                               | 109                  | 0060M      | QPSK    | 1         | 50      | 10 mm | front      | 1:1      | 0.389          | 1.033             | 0.402  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 19.5                  | 19.36            | 0.04     | 0                                               | 109                  | 0060M      | QPSK    | 50        | 0       | 10 mm | front      | 1:1      | 0.404          | 1.033             | 0.417  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 19.5                  | 19.36            | -0.08    | 0                                               | 108                  | 0060M      | QPSK    | 1         | 50      | 10 mm | bottom     | 1:1      | 0.933          | 1.033             | 0.964  |     |
| 1882.50                                                                                           | 26365 | Mid  | LTE Band 25 (PCS) | 20                          | 19.5                  | 19.15            | -0.13    | 0                                               | 108                  | 0060M      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1      | 0.952          | 1.084             | 1.032  |     |
| 1905.00                                                                                           | 26590 | High | LTE Band 25 (PCS) | 20                          | 19.5                  | 19.07            | -0.03    | 0                                               | 108                  | 0060M      | QPSK    | 1         | 50      | 10 mm | bottom     | 1:1      | 1.050          | 1.104             | 1.159  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 19.5                  | 19.36            | -0.01    | 0                                               | 108                  | 0060M      | QPSK    | 50        | 0       | 10 mm | bottom     | 1:1      | 0.947          | 1.033             | 0.978  |     |
| 1882.50                                                                                           | 26365 | Mid  | LTE Band 25 (PCS) | 20                          | 19.5                  | 19.15            | -0.08    | 0                                               | 108                  | 0060M      | QPSK    | 50        | 0       | 10 mm | bottom     | 1:1      | 0.982          | 1.084             | 1.064  |     |
| 1905.00                                                                                           | 26590 | High | LTE Band 25 (PCS) | 20                          | 19.5                  | 19.21            | -0.06    | 0                                               | 108                  | 0060M      | QPSK    | 50        | 25      | 10 mm | bottom     | 1:1      | 1.090          | 1.069             | 1.165  | A61 |
| 1905.00                                                                                           | 26590 | High | LTE Band 25 (PCS) | 20                          | 19.5                  | 19.18            | -0.10    | 0                                               | 108                  | 0060M      | QPSK    | 100       | 0       | 10 mm | bottom     | 1:1      | 1.060          | 1.076             | 1.141  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 19.5                  | 19.36            | 0.14     | 0                                               | 109                  | 0060M      | QPSK    | 1         | 50      | 10 mm | right      | 1:1      | 0.055          | 1.033             | 0.057  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 19.5                  | 19.36            | -0.01    | 0                                               | 109                  | 0060M      | QPSK    | 50        | 0       | 10 mm | right      | 1:1      | 0.064          | 1.033             | 0.066  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 19.5                  | 19.36            | -0.08    | 0                                               | 109                  | 0060M      | QPSK    | 1         | 50      | 10 mm | left       | 1:1      | 0.050          | 1.033             | 0.052  |     |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20                          | 19.5                  | 19.36            | 0.00     | 0                                               | 109                  | 0060M      | QPSK    | 50        | 0       | 10 mm | left       | 1:1      | 0.054          | 1.033             | 0.056  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |      |                   |                             |                       |                  |          | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                      |            |         |           |         |       |            |          |                |                   |        |     |

**Table 11-52**  
**LTE Band 30 Hotspot SAR**

| MEASUREMENT RESULTS                                                                               |       |      |                 |                             |                       |                  |          |                                                 |            |         |           |         |       |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|-------|------|-----------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |       | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Device Serial Number                            | Modulation | RB Size | RB Offset | Spacing | Side  | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |
| MHz                                                                                               | Ch.   |      |                 |                             |                       |                  |          |                                                 |            |         |           |         |       |            | (W/kg)   |                | (W/kg)            |        |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 20.0                  | 19.44            | 0.10     | 0                                               | 0060M      | QPSK    | 1         | 0       | 10 mm | back       | 1:1      | 0.395          | 1.138             | 0.450  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 20.0                  | 19.58            | -0.03    | 0                                               | 0060M      | QPSK    | 25        | 12      | 10 mm | back       | 1:1      | 0.387          | 1.102             | 0.426  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 20.0                  | 19.44            | -0.03    | 0                                               | 0060M      | QPSK    | 1         | 0       | 10 mm | front      | 1:1      | 0.313          | 1.138             | 0.356  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 20.0                  | 19.58            | -0.01    | 0                                               | 0060M      | QPSK    | 25        | 12      | 10 mm | front      | 1:1      | 0.301          | 1.102             | 0.332  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 20.0                  | 19.44            | -0.01    | 0                                               | 0060M      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1      | 0.911          | 1.138             | 1.037  | A63 |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 20.0                  | 19.58            | 0.01     | 0                                               | 0060M      | QPSK    | 25        | 12      | 10 mm | bottom     | 1:1      | 0.893          | 1.102             | 0.984  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 20.0                  | 19.42            | -0.02    | 0                                               | 0060M      | QPSK    | 50        | 0       | 10 mm | bottom     | 1:1      | 0.869          | 1.143             | 0.993  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 20.0                  | 19.44            | -0.06    | 0                                               | 0060M      | QPSK    | 1         | 0       | 10 mm | right      | 1:1      | 0.070          | 1.138             | 0.080  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 20.0                  | 19.58            | 0.06     | 0                                               | 0060M      | QPSK    | 25        | 12      | 10 mm | right      | 1:1      | 0.070          | 1.102             | 0.077  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 20.0                  | 19.44            | -0.03    | 0                                               | 0060M      | QPSK    | 1         | 0       | 10 mm | left       | 1:1      | 0.029          | 1.138             | 0.033  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 20.0                  | 19.58            | 0.12     | 0                                               | 0060M      | QPSK    | 25        | 12      | 10 mm | left       | 1:1      | 0.027          | 1.102             | 0.030  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 20.0                  | 19.44            | -0.01    | 0                                               | 0060M      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1      | 0.908          | 1.138             | 1.033  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |      |                 |                             |                       |                  |          | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |            |         |           |         |       |            |          |                |                   |        |     |

Note: Blue entry represents variability measurement.

|                                             |                                                                                                                                                                                                |                                      |                                                                                       |                                        |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          | <br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                      | <b>DUT Type:</b><br>Portable Handset | Page 223 of 305                                                                       |                                        |

**Table 11-53**  
**LTE Band 7 Hotspot SAR**

| MEASUREMENT RESULTS                                                                               |       |      |                 |                             |                       |                  |          |                                                 |            |         |           |         |       |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|-------|------|-----------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |       | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Device Serial Number                            | Modulation | RB Size | RB Offset | Spacing | Side  | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |
| MHz                                                                                               | Ch.   |      |                 |                             |                       |                  |          |                                                 |            |         |           |         |       |            | (W/kg)   |                | (W/kg)            |        |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 20.0                  | 19.60            | 0.15     | 0                                               | 0090M      | QPSK    | 1         | 0       | 10 mm | back       | 1:1      | 0.259          | 1.096             | 0.284  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 20.0                  | 19.61            | 0.13     | 0                                               | 0090M      | QPSK    | 50        | 50      | 10 mm | back       | 1:1      | 0.254          | 1.094             | 0.278  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 20.0                  | 19.60            | -0.03    | 0                                               | 0090M      | QPSK    | 1         | 0       | 10 mm | front      | 1:1      | 0.203          | 1.096             | 0.222  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 20.0                  | 19.61            | 0.02     | 0                                               | 0090M      | QPSK    | 50        | 50      | 10 mm | front      | 1:1      | 0.204          | 1.094             | 0.223  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 20.0                  | 19.60            | 0.00     | 0                                               | 0090M      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1      | 0.452          | 1.096             | 0.495  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 20.0                  | 19.61            | -0.02    | 0                                               | 0090M      | QPSK    | 50        | 50      | 10 mm | bottom     | 1:1      | 0.520          | 1.094             | 0.569  | A65 |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 20.0                  | 19.60            | 0.02     | 0                                               | 0090M      | QPSK    | 1         | 0       | 10 mm | right      | 1:1      | 0.131          | 1.096             | 0.144  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 20.0                  | 19.61            | 0.00     | 0                                               | 0090M      | QPSK    | 50        | 50      | 10 mm | right      | 1:1      | 0.132          | 1.094             | 0.144  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |      |                 |                             |                       |                  |          | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |            |         |           |         |       |            |          |                |                   |        |     |

**Table 11-54**  
**LTE Band 48 Hotspot SAR**

| MEASUREMENT RESULTS                                   |                      |           |       |          |             |                    |                                   |                          |                     |          |                                                 |            |         |           |         |       |            |          |                   |              |        |
|-------------------------------------------------------|----------------------|-----------|-------|----------|-------------|--------------------|-----------------------------------|--------------------------|---------------------|----------|-------------------------------------------------|------------|---------|-----------|---------|-------|------------|----------|-------------------|--------------|--------|
| 1 CC Uplink  <br>2 CC Uplink                          | Component<br>Carrier | FREQUENCY |       |          | Mode        | Bandwidth<br>[MHz] | Maximum<br>Allowed<br>Power [dBm] | Conducted<br>Power [dBm] | Power<br>Drift [dB] | MPR [dB] | Device<br>Serial<br>Number                      | Modulation | RB Size | RB Offset | Spacing | Side  | Duty Cycle | SAR (1g) | Scaling<br>Factor | Reported SAR | Plot # |
|                                                       |                      | MHz       |       | Ch.      |             |                    |                                   |                          |                     |          |                                                 |            |         |           |         |       |            | (W/kg)   |                   | (1g)         |        |
| 1 CC Uplink                                           | N/A                  | 3603.30   | 55773 | Low-Mid  | LTE Band 48 | 20                 | 25.0                              | 24.80                    | 0.09                | 0        | 1184M                                           | QPSK       | 1       | 50        | 10 mm   | back  | 1:1.58     | 0.445    | 1.047             | 0.466        |        |
| 1 CC Uplink                                           | N/A                  | 3603.30   | 55773 | Low-Mid  | LTE Band 48 | 20                 | 24.0                              | 23.66                    | 0.02                | 1        | 1184M                                           | QPSK       | 50      | 25        | 10 mm   | back  | 1:1.58     | 0.364    | 1.081             | 0.393        |        |
| 1 CC Uplink                                           | N/A                  | 3603.30   | 55773 | Low-Mid  | LTE Band 48 | 20                 | 25.0                              | 24.80                    | 0.02                | 0        | 1184M                                           | QPSK       | 1       | 50        | 10 mm   | front | 1:1.58     | 0.137    | 1.047             | 0.143        |        |
| 1 CC Uplink                                           | N/A                  | 3603.30   | 55773 | Low-Mid  | LTE Band 48 | 20                 | 24.0                              | 23.66                    | 0.06                | 1        | 1184M                                           | QPSK       | 50      | 25        | 10 mm   | front | 1:1.58     | 0.109    | 1.081             | 0.118        |        |
| 1 CC Uplink                                           | N/A                  | 3560.00   | 55340 | Low      | LTE Band 48 | 20                 | 25.0                              | 24.39                    | -0.03               | 0        | 1184M                                           | QPSK       | 1       | 50        | 10 mm   | top   | 1:1.58     | 0.623    | 1.151             | 0.717        |        |
| 1 CC Uplink                                           | N/A                  | 3603.30   | 55773 | Low-Mid  | LTE Band 48 | 20                 | 25.0                              | 24.80                    | 0.03                | 0        | 1184M                                           | QPSK       | 1       | 50        | 10 mm   | top   | 1:1.58     | 0.587    | 1.047             | 0.615        |        |
| 1 CC Uplink                                           | N/A                  | 3646.70   | 56207 | Mid-High | LTE Band 48 | 20                 | 25.0                              | 24.49                    | 0.13                | 0        | 1184M                                           | QPSK       | 1       | 50        | 10 mm   | top   | 1:1.58     | 0.668    | 1.125             | 0.752        |        |
| 1 CC Uplink                                           | N/A                  | 3690.00   | 56640 | High     | LTE Band 48 | 20                 | 25.0                              | 24.17                    | 0.16                | 0        | 1184M                                           | QPSK       | 1       | 0         | 10 mm   | top   | 1:1.58     | 0.667    | 1.211             | 0.808        |        |
| 1 CC Uplink                                           | N/A                  | 3690.00   | 56640 | High     | LTE Band 48 | 20                 | 25.0                              | 24.34                    | 0.11                | 0        | 1184M                                           | QPSK       | 1       | 50        | 10 mm   | top   | 1:1.58     | 0.732    | 1.164             | 0.852        |        |
| 1 CC Uplink                                           | N/A                  | 3603.30   | 55773 | Low-Mid  | LTE Band 48 | 20                 | 24.0                              | 23.66                    | -0.01               | 1        | 1184M                                           | QPSK       | 50      | 25        | 10 mm   | top   | 1:1.58     | 0.477    | 1.081             | 0.516        |        |
| 1 CC Uplink                                           | N/A                  | 3603.30   | 55773 | Low-Mid  | LTE Band 48 | 20                 | 24.0                              | 23.60                    | 0.04                | 1        | 1184M                                           | QPSK       | 100     | 0         | 10 mm   | top   | 1:1.58     | 0.478    | 1.096             | 0.524        |        |
| 2 CC Uplink                                           | PCC                  | 3690.00   | 56640 | High     | LTE Band 48 | 20                 | 25.0                              | 24.78                    | 0.11                | 0        | 1184M                                           | QPSK       | 1       | 0         | 10 mm   | top   | 1:1.58     | 0.806    | 1.052             | 0.848        | A67    |
|                                                       | SCC                  | 3670.20   | 56442 | High     | LTE Band 48 | 20                 |                                   |                          |                     |          |                                                 | QPSK       | 1       | 99        |         |       |            |          |                   |              |        |
| 1 CC Uplink                                           | N/A                  | 3603.30   | 55773 | Low-Mid  | LTE Band 48 | 20                 | 25.0                              | 24.80                    | 0.02                | 0        | 1184M                                           | QPSK       | 1       | 50        | 10 mm   | left  | 1:1.58     | 0.165    | 1.047             | 0.173        |        |
| 1 CC Uplink                                           | N/A                  | 3603.30   | 55773 | Low-Mid  | LTE Band 48 | 20                 | 24.0                              | 23.66                    | -0.10               | 1        | 1184M                                           | QPSK       | 50      | 25        | 10 mm   | left  | 1:1.58     | 0.130    | 1.081             | 0.141        |        |
| 2 CC Uplink                                           | PCC                  | 3690.00   | 56640 | High     | LTE Band 48 | 20                 | 25.0                              | 24.78                    | 0.16                | 0        | 1184M                                           | QPSK       | 1       | 0         | 10 mm   | top   | 1:1.58     | 0.796    | 1.052             | 0.837        |        |
|                                                       | SCC                  | 3670.20   | 56442 | High     | LTE Band 48 | 20                 |                                   |                          |                     |          |                                                 | QPSK       | 1       | 99        |         |       |            |          |                   |              |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak |                      |           |       |          |             |                    |                                   |                          |                     |          | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |            |         |           |         |       |            |          |                   |              |        |
| Uncontrolled Exposure/General Population              |                      |           |       |          |             |                    |                                   |                          |                     |          |                                                 |            |         |           |         |       |            |          |                   |              |        |

Note: Blue entry represents variability measurement.

|                                      |                                                                                                                                                                                                                             |                               |                                                                                       |                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                          | DUT Type:<br>Portable Handset |                                                                                       | Page 224 of 305                 |



**Table 11-55**  
**LTE Band 41 Hotspot SAR**

| MEASUREMENT RESULTS                       |                      |           |       |      |                    |                                   |                          |                     |          |                                         |            |         |           |         |       |            |          |                   |                      |        |     |
|-------------------------------------------|----------------------|-----------|-------|------|--------------------|-----------------------------------|--------------------------|---------------------|----------|-----------------------------------------|------------|---------|-----------|---------|-------|------------|----------|-------------------|----------------------|--------|-----|
| 1 CC Uplink / 2 CC Uplink,<br>Power Class | Component<br>Carrier | FREQUENCY |       | Mode | Bandwidth<br>[MHz] | Maximum<br>Allowed<br>Power [dBm] | Conducted<br>Power [dBm] | Power<br>Drift [dB] | MPR [dB] | Device<br>Serial<br>Number              | Modulation | RB Size | RB Offset | Spacing | Side  | Duty Cycle | SAR (1g) | Scaling<br>Factor | Reported SAR<br>(1g) | Plot # |     |
|                                           |                      | MHz       | Ch.   |      |                    |                                   |                          |                     |          |                                         |            |         |           |         |       |            | (W/kg)   |                   | (W/kg)               |        |     |
| 1 CC Uplink - Power Class 3               | N/A                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 22.0                     | 21.40               | 0.01     | 0                                       | 0085M      | QPSK    | 1         | 50      | 10 mm | back       | 1:1.58   | 0.177             | 1.148                | 0.203  |     |
| 1 CC Uplink - Power Class 3               | N/A                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 22.0                     | 21.53               | 0.18     | 0                                       | 0085M      | QPSK    | 50        | 25      | 10 mm | back       | 1:1.58   | 0.179             | 1.114                | 0.199  |     |
| 1 CC Uplink - Power Class 3               | N/A                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 22.0                     | 21.40               | -0.04    | 0                                       | 0085M      | QPSK    | 1         | 50      | 10 mm | front      | 1:1.58   | 0.143             | 1.148                | 0.164  |     |
| 1 CC Uplink - Power Class 3               | N/A                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 22.0                     | 21.53               | -0.01    | 0                                       | 0085M      | QPSK    | 50        | 25      | 10 mm | front      | 1:1.58   | 0.145             | 1.114                | 0.162  |     |
| 1 CC Uplink - Power Class 3               | N/A                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 22.0                     | 21.40               | 0.02     | 0                                       | 0085M      | QPSK    | 1         | 50      | 10 mm | bottom     | 1:1.58   | 0.358             | 1.148                | 0.411  |     |
| 1 CC Uplink - Power Class 3               | N/A                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 22.0                     | 21.36               | -0.04    | 0                                       | 0085M      | QPSK    | 1         | 99      | 10 mm | bottom     | 1:1.58   | 0.389             | 1.159                | 0.451  |     |
| 1 CC Uplink - Power Class 3               | N/A                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 22.0                     | 21.53               | -0.02    | 0                                       | 0085M      | QPSK    | 50        | 25      | 10 mm | bottom     | 1:1.58   | 0.367             | 1.114                | 0.409  |     |
| 1 CC Uplink - Power Class 2               | N/A                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 23.6                     | 23.03               | -0.10    | 0                                       | 0085M      | QPSK    | 1         | 50      | 10 mm | bottom     | 1:2.31   | 0.345             | 1.140                | 0.393  |     |
| 1 CC Uplink - Power Class 2               | N/A                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 23.6                     | 23.00               | 0.02     | 0                                       | 0085M      | QPSK    | 1         | 99      | 10 mm | bottom     | 1:2.31   | 0.373             | 1.148                | 0.428  |     |
| 2 CC Uplink - Power Class 3               | PCC                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 22.0                     | 21.25               | -0.04    | 0                                       | 0085M      | QPSK    | 1         | 99      | 10 mm | bottom     | 1:1.58   | 0.393             | 1.189                | 0.467  | A69 |
|                                           | SCC                  | 2525.80   | 39948 | Low  | LTE Band 41        | 20                                |                          |                     |          |                                         |            | QPSK    | 1         | 0       |       |            |          |                   |                      |        |     |
| 2 CC Uplink - Power Class 2               | PCC                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 23.6                     | 23.06               | -0.07    | 0                                       | 0085M      | QPSK    | 1         | 99      | 10 mm | bottom     | 1:2.31   | 0.384             | 1.132                | 0.435  |     |
|                                           | SCC                  | 2525.80   | 39948 | Low  | LTE Band 41        | 20                                |                          |                     |          |                                         |            | QPSK    | 1         | 0       |       |            |          |                   |                      |        |     |
| 1 CC Uplink - Power Class 3               | N/A                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 22.0                     | 21.40               | 0.02     | 0                                       | 0085M      | QPSK    | 1         | 50      | 10 mm | right      | 1:1.58   | 0.098             | 1.148                | 0.113  |     |
| 1 CC Uplink - Power Class 3               | N/A                  | 2506.00   | 39750 | Low  | LTE Band 41        | 20                                | 22.0                     | 21.53               | 0.07     | 0                                       | 0085M      | QPSK    | 50        | 25      | 10 mm | right      | 1:1.58   | 0.099             | 1.114                | 0.110  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT     |                      |           |       |      |                    |                                   |                          |                     |          |                                         |            |         |           |         |       |            |          |                   |                      |        |     |
| Spatial Peak                              |                      |           |       |      |                    |                                   |                          |                     |          | Body                                    |            |         |           |         |       |            |          |                   |                      |        |     |
| Uncontrolled Exposure/General Population  |                      |           |       |      |                    |                                   |                          |                     |          | 1.6 W/kg (mW/g)<br>averaged over 1 gram |            |         |           |         |       |            |          |                   |                      |        |     |

**Table 11-56**  
**NR Band n71 Hotspot SAR**

| MEASUREMENT RESULTS                                                                               |        |      |                 |                             |                       |                  |          |                                                 |                      |            |                 |           |         |       |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|--------|------|-----------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------------|----------------------|------------|-----------------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |        | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Antenna State                                   | Device Serial Number | Modulation | RB Size         | RB Offset | Spacing | Side  | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |
| MHz                                                                                               | Ch.    |      |                 |                             |                       |                  |          |                                                 |                      |            |                 |           |         |       |            | (W/kg)   |                | (W/kg)            |        |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 25.5                  | 25.05            | 0.15     | 0                                               | 3                    | 0070M      | DFT-S-OFDM QPSK | 1         | 53      | 10 mm | back       | 1:1      | 0.310          | 1.109             | 0.344  | A71 |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 25.5                  | 24.66            | 0.02     | 0                                               | 3                    | 0070M      | DFT-S-OFDM QPSK | 50        | 28      | 10 mm | back       | 1:1      | 0.302          | 1.213             | 0.366  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 24.0                  | 23.41            | 0.00     | 1.5                                             | 3                    | 0070M      | CP-OFDM QPSK    | 1         | 1       | 10 mm | back       | 1:1      | 0.215          | 1.146             | 0.246  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 25.5                  | 25.05            | -0.08    | 0                                               | 3                    | 0070M      | DFT-S-OFDM QPSK | 1         | 53      | 10 mm | front      | 1:1      | 0.196          | 1.109             | 0.217  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 25.5                  | 24.66            | -0.05    | 0                                               | 3                    | 0070M      | DFT-S-OFDM QPSK | 50        | 28      | 10 mm | front      | 1:1      | 0.193          | 1.213             | 0.234  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 25.5                  | 25.05            | -0.01    | 0                                               | 4                    | 0070M      | DFT-S-OFDM QPSK | 1         | 53      | 10 mm | bottom     | 1:1      | 0.176          | 1.109             | 0.195  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 25.5                  | 24.66            | 0.00     | 0                                               | 4                    | 0070M      | DFT-S-OFDM QPSK | 50        | 28      | 10 mm | bottom     | 1:1      | 0.166          | 1.213             | 0.201  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 25.5                  | 25.05            | -0.13    | 0                                               | 4                    | 0070M      | DFT-S-OFDM QPSK | 1         | 53      | 10 mm | right      | 1:1      | 0.135          | 1.109             | 0.150  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 25.5                  | 24.66            | -0.01    | 0                                               | 4                    | 0070M      | DFT-S-OFDM QPSK | 50        | 28      | 10 mm | right      | 1:1      | 0.118          | 1.213             | 0.143  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 25.5                  | 25.05            | 0.02     | 0                                               | 3                    | 0070M      | DFT-S-OFDM QPSK | 1         | 53      | 10 mm | left       | 1:1      | 0.250          | 1.109             | 0.277  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 25.5                  | 24.66            | 0.02     | 0                                               | 3                    | 0070M      | DFT-S-OFDM QPSK | 50        | 28      | 10 mm | left       | 1:1      | 0.226          | 1.213             | 0.274  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |        |      |                 |                             |                       |                  |          | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                      |            |                 |           |         |       |            |          |                |                   |        |     |

|                                      |                                                                                                                                                                                                                   |                               |                                                                                       |                     |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------|
| FCC ID: A3LSMN986U                   | <br><small>Proud to be part of the</small>  | <b>SAR EVALUATION REPORT</b>  |  | <b>Approved by:</b> |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                | DUT Type:<br>Portable Handset |                                                                                       | Quality Manager     |
|                                      |                                                                                                                                                                                                                   |                               |                                                                                       | Page 225 of 305     |

**Table 11-57**  
**NR Band n12 Hotspot SAR**

| MEASUREMENT RESULTS                      |        |      |                 |                             |                       |                  |          |                                                 |                      |            |                 |           |         |       |            |          |                |                   |        |     |
|------------------------------------------|--------|------|-----------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------------|----------------------|------------|-----------------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                |        | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Antenna State                                   | Device Serial Number | Modulation | RB Size         | RB Offset | Spacing | Side  | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |
| MHz                                      | Ch.    |      |                 |                             |                       |                  |          |                                                 |                      |            |                 |           |         |       |            | (W/kg)   |                | (W/kg)            |        |     |
| 707.50                                   | 141500 | Mid  | NR Band n12     | 15                          | 25.5                  | 24.78            | 0.15     | 0                                               | 1                    | 0095M      | DFT-S-OFDM QPSK | 1         | 77      | 10 mm | back       | 1:1      | 0.340          | 1.180             | 0.401  | A73 |
| 707.50                                   | 141500 | Mid  | NR Band n12     | 15                          | 25.5                  | 24.54            | 0.01     | 0                                               | 1                    | 0095M      | DFT-S-OFDM QPSK | 36        | 22      | 10 mm | back       | 1:1      | 0.309          | 1.247             | 0.385  |     |
| 707.50                                   | 141500 | Mid  | NR Band n12     | 15                          | 24.0                  | 22.95            | 0.04     | 1.5                                             | 1                    | 0095M      | CP-OFDM QPSK    | 1         | 1       | 10 mm | back       | 1:1      | 0.188          | 1.274             | 0.240  |     |
| 707.50                                   | 141500 | Mid  | NR Band n12     | 15                          | 25.5                  | 24.78            | -0.12    | 0                                               | 108                  | 0095M      | DFT-S-OFDM QPSK | 1         | 77      | 10 mm | front      | 1:1      | 0.211          | 1.180             | 0.249  |     |
| 707.50                                   | 141500 | Mid  | NR Band n12     | 15                          | 25.5                  | 24.54            | -0.13    | 0                                               | 108                  | 0095M      | DFT-S-OFDM QPSK | 36        | 22      | 10 mm | front      | 1:1      | 0.179          | 1.247             | 0.223  |     |
| 707.50                                   | 141500 | Mid  | NR Band n12     | 15                          | 25.5                  | 24.78            | 0.03     | 0                                               | 108                  | 0095M      | DFT-S-OFDM QPSK | 1         | 77      | 10 mm | bottom     | 1:1      | 0.179          | 1.180             | 0.211  |     |
| 707.50                                   | 141500 | Mid  | NR Band n12     | 15                          | 25.5                  | 24.54            | 0.01     | 0                                               | 108                  | 0095M      | DFT-S-OFDM QPSK | 36        | 22      | 10 mm | bottom     | 1:1      | 0.152          | 1.247             | 0.190  |     |
| 707.50                                   | 141500 | Mid  | NR Band n12     | 15                          | 25.5                  | 24.78            | -0.02    | 0                                               | 4                    | 0095M      | DFT-S-OFDM QPSK | 1         | 77      | 10 mm | right      | 1:1      | 0.118          | 1.180             | 0.139  |     |
| 707.50                                   | 141500 | Mid  | NR Band n12     | 15                          | 25.5                  | 24.54            | 0.05     | 0                                               | 4                    | 0095M      | DFT-S-OFDM QPSK | 36        | 22      | 10 mm | right      | 1:1      | 0.132          | 1.247             | 0.165  |     |
| 707.50                                   | 141500 | Mid  | NR Band n12     | 15                          | 25.5                  | 24.78            | 0.00     | 0                                               | 1                    | 0095M      | DFT-S-OFDM QPSK | 1         | 77      | 10 mm | left       | 1:1      | 0.246          | 1.180             | 0.290  |     |
| 707.50                                   | 141500 | Mid  | NR Band n12     | 15                          | 25.5                  | 24.54            | 0.00     | 0                                               | 1                    | 0095M      | DFT-S-OFDM QPSK | 36        | 22      | 10 mm | left       | 1:1      | 0.228          | 1.247             | 0.284  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |        |      |                 |                             |                       |                  |          | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                      |            |                 |           |         |       |            |          |                |                   |        |     |
| Spatial Peak                             |        |      |                 |                             |                       |                  |          |                                                 |                      |            |                 |           |         |       |            |          |                |                   |        |     |
| Uncontrolled Exposure/General Population |        |      |                 |                             |                       |                  |          |                                                 |                      |            |                 |           |         |       |            |          |                |                   |        |     |

**Table 11-58**  
**NR Band n5 Hotspot SAR**

| MEASUREMENT RESULTS                                                                               |        |      |                   |                            |                       |                  |          |                                                 |                      |            |                 |           |         |       |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|--------|------|-------------------|----------------------------|-----------------------|------------------|----------|-------------------------------------------------|----------------------|------------|-----------------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |        | Mode | Bandwidth [MHz]   | Maxium Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Antenna State                                   | Device Serial Number | Modulation | RB Size         | RB Offset | Spacing | Side  | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |
| MHz                                                                                               | Ch.    |      |                   |                            |                       |                  |          |                                                 |                      |            |                 |           |         |       |            | (W/kg)   |                | (W/kg)            |        |     |
| 836.50                                                                                            | 167300 | Md   | NR Band n5 (Cell) | 20                         | 25.5                  | 25.06            | -0.03    | 0                                               | 65                   | 0089M      | DFT-S-OFDM QPSK | 1         | 53      | 10 mm | back       | 1:1      | 0.570          | 1.107             | 0.631  | A75 |
| 836.50                                                                                            | 167300 | Md   | NR Band n5 (Cell) | 20                         | 25.5                  | 24.67            | 0.16     | 0                                               | 65                   | 0089M      | DFT-S-OFDM QPSK | 50        | 28      | 10 mm | back       | 1:1      | 0.558          | 1.211             | 0.676  |     |
| 836.50                                                                                            | 167300 | Md   | NR Band n5 (Cell) | 20                         | 24.0                  | 23.04            | -0.06    | 1.5                                             | 65                   | 0089M      | CP-OFDM QPSK    | 1         | 1       | 10 mm | back       | 1:1      | 0.337          | 1.247             | 0.420  |     |
| 836.50                                                                                            | 167300 | Md   | NR Band n5 (Cell) | 20                         | 25.5                  | 25.06            | 0.00     | 0                                               | 65                   | 0089M      | DFT-S-OFDM QPSK | 1         | 53      | 10 mm | front      | 1:1      | 0.365          | 1.107             | 0.404  |     |
| 836.50                                                                                            | 167300 | Md   | NR Band n5 (Cell) | 20                         | 25.5                  | 24.67            | 0.02     | 0                                               | 65                   | 0089M      | DFT-S-OFDM QPSK | 50        | 28      | 10 mm | front      | 1:1      | 0.358          | 1.211             | 0.434  |     |
| 836.50                                                                                            | 167300 | Md   | NR Band n5 (Cell) | 20                         | 25.5                  | 25.06            | -0.05    | 0                                               | 66                   | 0089M      | DFT-S-OFDM QPSK | 1         | 53      | 10 mm | bottom     | 1:1      | 0.328          | 1.107             | 0.363  |     |
| 836.50                                                                                            | 167300 | Md   | NR Band n5 (Cell) | 20                         | 25.5                  | 24.67            | -0.02    | 0                                               | 66                   | 0089M      | DFT-S-OFDM QPSK | 50        | 28      | 10 mm | bottom     | 1:1      | 0.313          | 1.211             | 0.379  |     |
| 836.50                                                                                            | 167300 | Md   | NR Band n5 (Cell) | 20                         | 25.5                  | 25.06            | 0.02     | 0                                               | 65                   | 0089M      | DFT-S-OFDM QPSK | 1         | 53      | 10 mm | right      | 1:1      | 0.056          | 1.107             | 0.062  |     |
| 836.50                                                                                            | 167300 | Md   | NR Band n5 (Cell) | 20                         | 25.5                  | 24.67            | -0.07    | 0                                               | 65                   | 0089M      | DFT-S-OFDM QPSK | 50        | 28      | 10 mm | right      | 1:1      | 0.054          | 1.211             | 0.065  |     |
| 836.50                                                                                            | 167300 | Md   | NR Band n5 (Cell) | 20                         | 25.5                  | 25.06            | -0.02    | 0                                               | 65                   | 0089M      | DFT-S-OFDM QPSK | 1         | 53      | 10 mm | left       | 1:1      | 0.186          | 1.107             | 0.206  |     |
| 836.50                                                                                            | 167300 | Md   | NR Band n5 (Cell) | 20                         | 25.5                  | 24.67            | 0.00     | 0                                               | 65                   | 0089M      | DFT-S-OFDM QPSK | 50        | 28      | 10 mm | left       | 1:1      | 0.184          | 1.211             | 0.223  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |        |      |                   |                            |                       |                  |          | Body<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |                      |            |                 |           |         |       |            |          |                |                   |        |     |

|                                      |                                                                                                                                                                                                                                                                                                                                                                          |                               |                                 |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   | <div><b>PCTEST</b><br/><small>Proud to be part of</small> </div> <div>SAR EVALUATION REPORT</div> <div></div> |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                                                                                                       | DUT Type:<br>Portable Handset | Page 226 of 305                 |

**Table 11-59**  
**NR Band n66 Hotspot SAR**

| MEASUREMENT RESULTS                      |        |      |                   |                             |                       |                  |          |                      |                      |            |                 |           |         |       |            |          |                |                   |        |     |
|------------------------------------------|--------|------|-------------------|-----------------------------|-----------------------|------------------|----------|----------------------|----------------------|------------|-----------------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                |        | Mode | Bandwidth [MHz]   | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Antenna State        | Device Serial Number | Modulation | RB Size         | RB Offset | Spacing | Side  | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |
| MHz                                      | Ch.    |      |                   |                             |                       |                  |          |                      |                      |            |                 |           |         |       |            | (W/kg)   |                | (W/kg)            |        |     |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | 20                          | 20.0                  | 19.79            | 0.00     | 0                    | 108                  | 0066M      | DFT-S-OFDM QPSK | 1         | 1       | 10 mm | back       | 1:1      | 0.680          | 1.050             | 0.714  |     |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | 20                          | 20.0                  | 19.70            | -0.03    | 0                    | 108                  | 0066M      | DFT-S-OFDM QPSK | 50        | 0       | 10 mm | back       | 1:1      | 0.686          | 1.072             | 0.735  |     |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | 20                          | 20.0                  | 19.79            | -0.02    | 0                    | 109                  | 0066M      | DFT-S-OFDM QPSK | 1         | 1       | 10 mm | front      | 1:1      | 0.368          | 1.050             | 0.386  |     |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | 20                          | 20.0                  | 19.70            | 0.00     | 0                    | 109                  | 0066M      | DFT-S-OFDM QPSK | 50        | 0       | 10 mm | front      | 1:1      | 0.376          | 1.072             | 0.403  |     |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | 20                          | 20.0                  | 19.79            | 0.01     | 0                    | 11                   | 0066M      | DFT-S-OFDM QPSK | 1         | 1       | 10 mm | bottom     | 1:1      | 0.819          | 1.050             | 0.860  |     |
| 1745.00                                  | 349000 | Mid  | NR Band n66 (AWS) | 20                          | 20.0                  | 19.57            | 0.02     | 0                    | 5                    | 0066M      | DFT-S-OFDM QPSK | 1         | 53      | 10 mm | bottom     | 1:1      | 0.966          | 1.104             | 1.066  |     |
| 1770.00                                  | 354000 | High | NR Band n66 (AWS) | 20                          | 20.0                  | 19.68            | -0.01    | 0                    | 6                    | 0066M      | DFT-S-OFDM QPSK | 1         | 1       | 10 mm | bottom     | 1:1      | 1.080          | 1.076             | 1.162  | A77 |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | 20                          | 20.0                  | 19.70            | 0.08     | 0                    | 11                   | 0066M      | DFT-S-OFDM QPSK | 50        | 0       | 10 mm | bottom     | 1:1      | 0.848          | 1.072             | 0.909  |     |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | 20                          | 20.0                  | 19.90            | 0.02     | 0                    | 11                   | 0066M      | CP-OFDM QPSK    | 1         | 1       | 10 mm | bottom     | 1:1      | 0.829          | 1.023             | 0.848  |     |
| 1745.00                                  | 349000 | Mid  | NR Band n66 (AWS) | 20                          | 20.0                  | 19.69            | 0.02     | 0                    | 5                    | 0066M      | DFT-S-OFDM QPSK | 50        | 0       | 10 mm | bottom     | 1:1      | 0.967          | 1.074             | 1.039  |     |
| 1770.00                                  | 354000 | High | NR Band n66 (AWS) | 20                          | 20.0                  | 19.61            | -0.01    | 0                    | 6                    | 0066M      | DFT-S-OFDM QPSK | 50        | 0       | 10 mm | bottom     | 1:1      | 1.040          | 1.094             | 1.138  |     |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | 20                          | 20.0                  | 19.64            | 0.05     | 0                    | 5                    | 0066M      | DFT-S-OFDM QPSK | 100       | 0       | 10 mm | bottom     | 1:1      | 0.844          | 1.086             | 0.917  |     |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | 20                          | 20.0                  | 19.79            | 0.10     | 0                    | 109                  | 0066M      | DFT-S-OFDM QPSK | 1         | 1       | 10 mm | right      | 1:1      | 0.078          | 1.050             | 0.082  |     |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | 20                          | 20.0                  | 19.70            | 0.09     | 0                    | 109                  | 0066M      | DFT-S-OFDM QPSK | 50        | 0       | 10 mm | right      | 1:1      | 0.080          | 1.072             | 0.086  |     |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | 20                          | 20.0                  | 19.79            | -0.06    | 0                    | 109                  | 0066M      | DFT-S-OFDM QPSK | 1         | 1       | 10 mm | left       | 1:1      | 0.065          | 1.050             | 0.068  |     |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | 20                          | 20.0                  | 19.70            | 0.03     | 0                    | 109                  | 0066M      | DFT-S-OFDM QPSK | 50        | 0       | 10 mm | left       | 1:1      | 0.067          | 1.072             | 0.072  |     |
| 1770.00                                  | 354000 | High | NR Band n66 (AWS) | 20                          | 20.0                  | 19.68            | 0.01     | 0                    | 6                    | 0066M      | DFT-S-OFDM QPSK | 1         | 1       | 10 mm | bottom     | 1:1      | 1.070          | 1.076             | 1.151  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |        |      |                   |                             |                       |                  |          | Body                 |                      |            |                 |           |         |       |            |          |                |                   |        |     |
| Spatial Peak                             |        |      |                   |                             |                       |                  |          | 1.6 W/kg (mW/g)      |                      |            |                 |           |         |       |            |          |                |                   |        |     |
| Uncontrolled Exposure/General Population |        |      |                   |                             |                       |                  |          | averaged over 1 gram |                      |            |                 |           |         |       |            |          |                |                   |        |     |

Note: Blue entry represents variability measurement.

|                     |                                                                                                                                                        |                              |                                                                                       |                     |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|---------------------|
| FCC ID: A3LSMN986U  |  <b>PCTEST</b><br><small>Proud to be part of the ROHM group</small> | <b>SAR EVALUATION REPORT</b> |  | <b>Approved by:</b> |
| Document S/N:       | Test Dates:                                                                                                                                            | DUT Type:                    |                                                                                       | Quality Manager     |
| 1M2004170065-01.A3L | 04/22/20 - 06/07/20                                                                                                                                    | Portable Handset             |                                                                                       | Page 227 of 305     |

**Table 11-60**  
**NR Band n25 Hotspot SAR**

| MEASUREMENT RESULTS                      |        |      |                   |                             |                       |                  |          |                      |                      |            |                 |           |         |       |            |          |                |                   |        |     |
|------------------------------------------|--------|------|-------------------|-----------------------------|-----------------------|------------------|----------|----------------------|----------------------|------------|-----------------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                |        | Mode | Bandwidth [MHz]   | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Antenna State        | Device Serial Number | Modulation | RB Size         | RB Offset | Spacing | Side  | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |
| MHz                                      | Ch.    |      |                   |                             |                       |                  |          |                      |                      |            |                 |           |         |       |            | (W/kg)   |                | (W/kg)            |        |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 19.0                  | 18.94            | 0.02     | 0                    | 109                  | 0065M      | DFT-S-OFDM QPSK | 1         | 53      | 10 mm | back       | 1:1      | 0.550          | 1.014             | 0.558  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 19.0                  | 18.83            | 0.01     | 0                    | 109                  | 0065M      | DFT-S-OFDM QPSK | 50        | 28      | 10 mm | back       | 1:1      | 0.531          | 1.040             | 0.552  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 19.0                  | 18.94            | -0.03    | 0                    | 109                  | 0065M      | DFT-S-OFDM QPSK | 1         | 53      | 10 mm | front      | 1:1      | 0.380          | 1.014             | 0.385  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 19.0                  | 18.83            | 0.03     | 0                    | 109                  | 0065M      | DFT-S-OFDM QPSK | 50        | 28      | 10 mm | front      | 1:1      | 0.365          | 1.040             | 0.380  |     |
| 1860.00                                  | 372000 | Low  | NR Band n25 (PCS) | 20                          | 19.0                  | 18.68            | -0.02    | 0                    | 108                  | 0065M      | DFT-S-OFDM QPSK | 1         | 1       | 10 mm | bottom     | 1:1      | 0.850          | 1.076             | 0.915  |     |
| 1882.50                                  | 376500 | Mid  | NR Band n25 (PCS) | 20                          | 19.0                  | 18.52            | 0.00     | 0                    | 108                  | 0065M      | DFT-S-OFDM QPSK | 1         | 53      | 10 mm | bottom     | 1:1      | 0.998          | 1.117             | 1.115  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 19.0                  | 18.94            | 0.02     | 0                    | 108                  | 0065M      | DFT-S-OFDM QPSK | 1         | 53      | 10 mm | bottom     | 1:1      | 1.150          | 1.014             | 1.166  | A79 |
| 1860.00                                  | 372000 | Low  | NR Band n25 (PCS) | 20                          | 19.0                  | 18.65            | -0.11    | 0                    | 108                  | 0065M      | DFT-S-OFDM QPSK | 50        | 0       | 10 mm | bottom     | 1:1      | 0.899          | 1.084             | 0.975  |     |
| 1882.50                                  | 376500 | Mid  | NR Band n25 (PCS) | 20                          | 19.0                  | 18.41            | -0.04    | 0                    | 108                  | 0065M      | DFT-S-OFDM QPSK | 50        | 28      | 10 mm | bottom     | 1:1      | 0.958          | 1.146             | 1.098  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 19.0                  | 18.83            | 0.00     | 0                    | 108                  | 0065M      | DFT-S-OFDM QPSK | 50        | 28      | 10 mm | bottom     | 1:1      | 1.080          | 1.040             | 1.123  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 19.0                  | 18.75            | -0.10    | 0                    | 108                  | 0065M      | CP-OFDM QPSK    | 1         | 1       | 10 mm | bottom     | 1:1      | 1.070          | 1.059             | 1.133  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 19.0                  | 18.85            | -0.02    | 0                    | 108                  | 0065M      | DFT-S-OFDM QPSK | 100       | 0       | 10 mm | bottom     | 1:1      | 1.080          | 1.035             | 1.118  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 19.0                  | 18.94            | -0.02    | 0                    | 109                  | 0065M      | DFT-S-OFDM QPSK | 1         | 53      | 10 mm | right      | 1:1      | 0.051          | 1.014             | 0.052  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 19.0                  | 18.83            | 0.14     | 0                    | 109                  | 0065M      | DFT-S-OFDM QPSK | 50        | 28      | 10 mm | right      | 1:1      | 0.047          | 1.040             | 0.049  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 19.0                  | 18.94            | -0.03    | 0                    | 109                  | 0065M      | DFT-S-OFDM QPSK | 1         | 53      | 10 mm | left       | 1:1      | 0.046          | 1.014             | 0.047  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 19.0                  | 18.83            | 0.13     | 0                    | 109                  | 0065M      | DFT-S-OFDM QPSK | 50        | 28      | 10 mm | left       | 1:1      | 0.041          | 1.040             | 0.043  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 19.0                  | 18.94            | 0.06     | 0                    | 108                  | 0065M      | DFT-S-OFDM QPSK | 1         | 53      | 10 mm | bottom     | 1:1      | 1.100          | 1.014             | 1.115  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |        |      |                   |                             |                       |                  |          | Body                 |                      |            |                 |           |         |       |            |          |                |                   |        |     |
| Spatial Peak                             |        |      |                   |                             |                       |                  |          | 1.6 W/kg (mW/g)      |                      |            |                 |           |         |       |            |          |                |                   |        |     |
| Uncontrolled Exposure/General Population |        |      |                   |                             |                       |                  |          | averaged over 1 gram |                      |            |                 |           |         |       |            |          |                |                   |        |     |

Note: Blue entry represents variability measurement.

**Table 11-61**  
**NR Band n41 Hotspot SAR**

| MEASUREMENT RESULTS                      |        |      |                 |                             |                       |                  |          |                      |            |                 |           |         |       |            |          |                |                   |        |     |
|------------------------------------------|--------|------|-----------------|-----------------------------|-----------------------|------------------|----------|----------------------|------------|-----------------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                |        | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Device Serial Number | Modulation | RB Size         | RB Offset | Spacing | Side  | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |
| MHz                                      | Ch.    |      |                 |                             |                       |                  |          |                      |            |                 |           |         |       |            | (W/kg)   |                | (W/kg)            |        |     |
| 2592.99                                  | 518598 | Mid  | NR Band n41     | 100                         | 25.5                  | 24.56            | -0.01    | 0                    | 1187M      | DFT-S-OFDM QPSK | 1         | 137     | 10 mm | back       | 1:4      | 0.135          | 1.242             | 0.168  |     |
| 2592.99                                  | 518598 | Mid  | NR Band n41     | 100                         | 25.5                  | 24.32            | -0.01    | 0                    | 1187M      | DFT-S-OFDM QPSK | 135       | 69      | 10 mm | back       | 1:4      | 0.131          | 1.312             | 0.172  |     |
| 2592.99                                  | 518598 | Mid  | NR Band n41     | 100                         | 25.5                  | 24.56            | 0.08     | 0                    | 1187M      | DFT-S-OFDM QPSK | 1         | 137     | 10 mm | front      | 1:4      | 0.152          | 1.242             | 0.189  |     |
| 2592.99                                  | 518598 | Mid  | NR Band n41     | 100                         | 25.5                  | 24.32            | 0.03     | 0                    | 1187M      | DFT-S-OFDM QPSK | 135       | 69      | 10 mm | front      | 1:4      | 0.151          | 1.312             | 0.198  |     |
| 2592.99                                  | 518598 | Mid  | NR Band n41     | 100                         | 25.5                  | 24.56            | -0.08    | 0                    | 1187M      | DFT-S-OFDM QPSK | 1         | 137     | 10 mm | top        | 1:4      | 0.406          | 1.242             | 0.504  | A81 |
| 2592.99                                  | 518598 | Mid  | NR Band n41     | 100                         | 25.5                  | 24.32            | 0.00     | 0                    | 1187M      | DFT-S-OFDM QPSK | 135       | 69      | 10 mm | top        | 1:4      | 0.402          | 1.312             | 0.527  |     |
| 2592.99                                  | 518598 | Mid  | NR Band n41     | 100                         | 24.0                  | 23.03            | -0.09    | 1.5                  | 1187M      | CP-OFDM QPSK    | 1         | 1       | 10 mm | top        | 1:4      | 0.389          | 1.250             | 0.486  |     |
| 2592.99                                  | 518598 | Mid  | NR Band n41     | 100                         | 25.5                  | 24.56            | 0.16     | 0                    | 1187M      | DFT-S-OFDM QPSK | 1         | 137     | 10 mm | left       | 1:4      | 0.025          | 1.242             | 0.031  |     |
| 2592.99                                  | 518598 | Mid  | NR Band n41     | 100                         | 25.5                  | 24.32            | 0.16     | 0                    | 1187M      | DFT-S-OFDM QPSK | 135       | 69      | 10 mm | left       | 1:4      | 0.024          | 1.312             | 0.031  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |        |      |                 |                             |                       |                  |          | Body                 |            |                 |           |         |       |            |          |                |                   |        |     |
| Spatial Peak                             |        |      |                 |                             |                       |                  |          | 1.6 W/kg (mW/g)      |            |                 |           |         |       |            |          |                |                   |        |     |
| Uncontrolled Exposure/General Population |        |      |                 |                             |                       |                  |          | averaged over 1 gram |            |                 |           |         |       |            |          |                |                   |        |     |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 228 of 305                                                                       |                                        |

**Table 11-62**  
**WLAN Hotspot SAR**

| MEASUREMENT RESULTS                      |     |         |         |                 |                             |                       |                  |                      |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
|------------------------------------------|-----|---------|---------|-----------------|-----------------------------|-----------------------|------------------|----------------------|-----------------|----------------------|------------------|-------|----------------|-----------------------|----------|------------------------|-----------------------------|-------------------|--------|
| FREQUENCY                                |     | Mode    | Service | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Spacing              | Antenna Config. | Device Serial Number | Data Rate (Mbps) | Side  | Duty Cycle (%) | Peak SAR of Area Scan | SAR (1g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (1g) | Plot # |
| MHz                                      | Ch. |         |         |                 |                             |                       |                  |                      |                 |                      |                  |       |                | W/kg                  | (W/kg)   |                        |                             | (W/kg)            |        |
| 2462                                     | 11  | 802.11b | DSSS    | 22              | 20.5                        | 20.49                 | 0.17             | 10 mm                | 1               | 0697M                | 1                | back  | 99.9           | 0.286                 | 0.206    | 1.002                  | 1.001                       | 0.207             |        |
| 2462                                     | 11  | 802.11b | DSSS    | 22              | 20.5                        | 20.49                 | 0.14             | 10 mm                | 1               | 0697M                | 1                | front | 99.9           | 0.268                 | -        | 1.002                  | 1.001                       | -                 |        |
| 2462                                     | 11  | 802.11b | DSSS    | 22              | 20.5                        | 20.49                 | 0.13             | 10 mm                | 1               | 0697M                | 1                | top   | 99.9           | 0.750                 | 0.488    | 1.002                  | 1.001                       | 0.489             | A83    |
| 2462                                     | 11  | 802.11b | DSSS    | 22              | 20.5                        | 20.49                 | 0.12             | 10 mm                | 1               | 0697M                | 1                | left  | 99.9           | 0.076                 | 0.050    | 1.002                  | 1.001                       | 0.050             |        |
| 2412                                     | 1   | 802.11b | DSSS    | 22              | 20.5                        | 20.43                 | 0.18             | 10 mm                | 2               | 0697M                | 1                | back  | 99.0           | 0.212                 | 0.127    | 1.016                  | 1.010                       | 0.130             |        |
| 2412                                     | 1   | 802.11b | DSSS    | 22              | 20.5                        | 20.43                 | 0.00             | 10 mm                | 2               | 0697M                | 1                | front | 99.0           | 0.015                 | -        | 1.016                  | 1.010                       | -                 |        |
| 2412                                     | 1   | 802.11b | DSSS    | 22              | 20.5                        | 20.43                 | 0.12             | 10 mm                | 2               | 0697M                | 1                | top   | 99.0           | 0.047                 | -        | 1.016                  | 1.010                       | -                 |        |
| 2412                                     | 1   | 802.11b | DSSS    | 22              | 20.5                        | 20.43                 | 0.12             | 10 mm                | 2               | 0697M                | 1                | left  | 99.0           | 0.081                 | -        | 1.016                  | 1.010                       | -                 |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.5                        | 18.04                 | 0.00             | 10 mm                | 1               | 0697M                | 6                | back  | 99.0           | 1.367                 | 0.524    | 1.112                  | 1.010                       | 0.589             |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.5                        | 18.04                 | -0.12            | 10 mm                | 1               | 0697M                | 6                | front | 99.0           | 0.034                 | -        | 1.112                  | 1.010                       | -                 |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.5                        | 18.04                 | -0.17            | 10 mm                | 1               | 0697M                | 6                | top   | 99.0           | 0.128                 | 0.049    | 1.112                  | 1.010                       | 0.055             |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.5                        | 18.04                 | 0.03             | 10 mm                | 1               | 0697M                | 6                | left  | 99.0           | 0.249                 | 0.109    | 1.112                  | 1.010                       | 0.122             |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.5                        | 18.49                 | -0.13            | 10 mm                | 2               | 0697M                | 6                | back  | 98.9           | 1.150                 | 0.582    | 1.002                  | 1.011                       | 0.590             |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.5                        | 18.49                 | 0.16             | 10 mm                | 2               | 0697M                | 6                | front | 98.9           | 0.038                 | -        | 1.002                  | 1.011                       | -                 |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.5                        | 18.49                 | 0.12             | 10 mm                | 2               | 0697M                | 6                | top   | 98.9           | 0.197                 | 0.069    | 1.002                  | 1.011                       | 0.070             |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 18.5                        | 18.49                 | 0.11             | 10 mm                | 2               | 0697M                | 6                | left  | 98.9           | 0.437                 | 0.186    | 1.002                  | 1.011                       | 0.188             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |     |         |         |                 |                             |                       |                  | Body                 |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
| Spatial Peak                             |     |         |         |                 |                             |                       |                  | 1.6 W/kg (mW/g)      |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
| Uncontrolled Exposure/General Population |     |         |         |                 |                             |                       |                  | averaged over 1 gram |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |

**Table 11-63**  
**WLAN SISO Hotspot SAR for Conditions with NR Active**

| MEASUREMENT RESULTS                      |     |          |         |                 |                             |                       |                  |                      |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
|------------------------------------------|-----|----------|---------|-----------------|-----------------------------|-----------------------|------------------|----------------------|-----------------|----------------------|------------------|-------|----------------|-----------------------|----------|------------------------|-----------------------------|-------------------|--------|
| FREQUENCY                                |     | Mode     | Service | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Spacing              | Antenna Config. | Device Serial Number | Data Rate (Mbps) | Side  | Duty Cycle (%) | Peak SAR of Area Scan | SAR (1g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (1g) | Plot # |
| MHz                                      | Ch. |          |         |                 |                             |                       |                  |                      |                 |                      |                  |       |                | W/kg                  | (W/kg)   |                        |                             | (W/kg)            |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 13.0                        | 12.74                 | 0.00             | 10 mm                | 1               | 0697M                | 29.3             | back  | 93.9           | 0.299                 | 0.125    | 1.062                  | 1.065                       | 0.141             |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 13.0                        | 12.74                 | 0.00             | 10 mm                | 1               | 0697M                | 29.3             | front | 93.9           | 0.014                 | -        | 1.062                  | 1.065                       | -                 |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 13.0                        | 12.74                 | 0.00             | 10 mm                | 1               | 0697M                | 29.3             | top   | 93.9           | 0.028                 | -        | 1.062                  | 1.065                       | -                 |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 13.0                        | 12.74                 | 0.00             | 10 mm                | 1               | 0697M                | 29.3             | left  | 93.9           | 0.068                 | -        | 1.062                  | 1.065                       | -                 |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 13.0                        | 12.88                 | 0.01             | 10 mm                | 2               | 0697M                | 29.3             | back  | 94.8           | 0.337                 | 0.176    | 1.028                  | 1.055                       | 0.191             |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 13.0                        | 12.88                 | 0.00             | 10 mm                | 2               | 0697M                | 29.3             | front | 94.8           | 0.012                 | -        | 1.028                  | 1.055                       | -                 |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 13.0                        | 12.88                 | 0.00             | 10 mm                | 2               | 0697M                | 29.3             | top   | 94.8           | 0.069                 | -        | 1.028                  | 1.055                       | -                 |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 13.0                        | 12.88                 | 0.00             | 10 mm                | 2               | 0697M                | 29.3             | left  | 94.8           | 0.144                 | -        | 1.028                  | 1.055                       | -                 |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |     |          |         |                 |                             |                       |                  | Body                 |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
| Spatial Peak                             |     |          |         |                 |                             |                       |                  | 1.6 W/kg (mW/g)      |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
| Uncontrolled Exposure/General Population |     |          |         |                 |                             |                       |                  | averaged over 1 gram |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |

|                                      |                                                                                                                           |                               |                                                                                       |                                 |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   | <br>PCTEST<br>Proud to be part of ROHM | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                        | DUT Type:<br>Portable Handset |                                                                                       | Page 229 of 305                 |

**Table 11-64**  
**WLAN MIMO Hotspot SAR**

| MEASUREMENT RESULTS                      |     |         |         |                 |                                     |                               |                                     |                               |                  |                      |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
|------------------------------------------|-----|---------|---------|-----------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|------------------|----------------------|-----------------|----------------------|------------------|-------|----------------|-----------------------|----------|------------------------|-----------------------------|-------------------|--------|
| FREQUENCY                                |     | Mode    | Service | Bandwidth [MHz] | Maximum Allowed Power (Ant 1) [dBm] | Conducted Power (Ant 1) [dBm] | Maximum Allowed Power (Ant 2) [dBm] | Conducted Power (Ant 2) [dBm] | Power Drift [dB] | Spacing              | Antenna Config. | Device Serial Number | Data Rate (Mbps) | Side  | Duty Cycle (%) | Peak SAR of Area Scan | SAR (1g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (1g) | Plot # |
| MHz                                      | Ch. |         |         |                 |                                     |                               |                                     |                               |                  |                      |                 |                      |                  |       |                | W/kg                  | (W/kg)   |                        |                             | (W/kg)            |        |
| 5755                                     | 151 | 802.11n | OFDM    | 40              | 17.0                                | 16.98                         | 17.0                                | 16.92                         | 0.15             | 10 mm                | MIMO            | 0697M                | 27               | back  | 95.1           | 1.826                 | 0.852    | 1.019                  | 1.052                       | 0.913             | A85    |
| 5795                                     | 159 | 802.11n | OFDM    | 40              | 17.0                                | 17.00                         | 17.0                                | 16.84                         | 0.16             | 10 mm                | MIMO            | 0697M                | 27               | back  | 95.1           | 2.128                 | 0.854    | 1.038                  | 1.052                       | 0.933             |        |
| 5755                                     | 151 | 802.11n | OFDM    | 40              | 17.0                                | 16.98                         | 17.0                                | 16.92                         | -0.10            | 10 mm                | MIMO            | 0697M                | 27               | front | 95.1           | 0.077                 | 0.025    | 1.019                  | 1.052                       | 0.027             |        |
| 5755                                     | 151 | 802.11n | OFDM    | 40              | 17.0                                | 16.98                         | 17.0                                | 16.92                         | -0.05            | 10 mm                | MIMO            | 0697M                | 27               | top   | 95.1           | 0.246                 | 0.088    | 1.019                  | 1.052                       | 0.094             |        |
| 5755                                     | 151 | 802.11n | OFDM    | 40              | 17.0                                | 16.98                         | 17.0                                | 16.92                         | 0.14             | 10 mm                | MIMO            | 0697M                | 27               | left  | 95.1           | 0.617                 | 0.283    | 1.019                  | 1.052                       | 0.303             |        |
| 5795                                     | 159 | 802.11n | OFDM    | 40              | 17.0                                | 17.00                         | 17.0                                | 16.84                         | -0.16            | 10 mm                | MIMO            | 0697M                | 27               | back  | 95.1           | 1.945                 | 0.854    | 1.038                  | 1.052                       | 0.933             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |     |         |         |                 |                                     |                               |                                     |                               |                  | Body                 |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
| Spatial Peak                             |     |         |         |                 |                                     |                               |                                     |                               |                  | 1.6 W/kg (mW/g)      |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
| Uncontrolled Exposure/General Population |     |         |         |                 |                                     |                               |                                     |                               |                  | averaged over 1 gram |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |

Note: To achieve the 20.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17.0 dBm. Blue entry represents variability measurement.

**Table 11-65**  
**WLAN MIMO Hotspot SAR for Conditions with 2.4 GHz and 5 GHz WLAN SAR**

| MEASUREMENT RESULTS                      |     |          |         |                 |                                     |                               |                                     |                               |                  |                                         |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
|------------------------------------------|-----|----------|---------|-----------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|------------------|-----------------------------------------|-----------------|----------------------|------------------|-------|----------------|-----------------------|----------|------------------------|-----------------------------|-------------------|--------|
| FREQUENCY                                |     | Mode     | Service | Bandwidth [MHz] | Maximum Allowed Power (Ant 1) [dBm] | Conducted Power (Ant 1) [dBm] | Maximum Allowed Power (Ant 2) [dBm] | Conducted Power (Ant 2) [dBm] | Power Drift [dB] | Spacing                                 | Antenna Config. | Device Serial Number | Data Rate (Mbps) | Side  | Duty Cycle (%) | Peak SAR of Area Scan | SAR (1g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (1g) | Plot # |
| MHz                                      | Ch. |          |         |                 |                                     |                               |                                     |                               |                  |                                         |                 |                      |                  |       |                | W/kg                  | (W/kg)   |                        |                             | (W/kg)            |        |
| 2437                                     | 6   | 802.11n  | OFDM    | 20              | 16.0                                | 15.67                         | 16.0                                | 15.99                         | 0.10             | 10 mm                                   | MIMO            | 0697M                | 13               | back  | 97.3           | 0.160                 | 0.094    | 1.079                  | 1.028                       | 0.104             |        |
| 2437                                     | 6   | 802.11n  | OFDM    | 20              | 16.0                                | 15.67                         | 16.0                                | 15.99                         | 0.14             | 10 mm                                   | MIMO            | 0697M                | 13               | front | 97.3           | 0.060                 | -        | 1.079                  | 1.028                       | -                 |        |
| 2437                                     | 6   | 802.11n  | OFDM    | 20              | 16.0                                | 15.67                         | 16.0                                | 15.99                         | 0.15             | 10 mm                                   | MIMO            | 0697M                | 13               | top   | 97.3           | 0.239                 | 0.151    | 1.079                  | 1.028                       | 0.167             |        |
| 2437                                     | 6   | 802.11n  | OFDM    | 20              | 16.0                                | 15.67                         | 16.0                                | 15.99                         | 0.12             | 10 mm                                   | MIMO            | 0697M                | 13               | left  | 97.3           | 0.057                 | -        | 1.079                  | 1.028                       | -                 |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 13.0                                | 12.74                         | 13.0                                | 12.88                         | -0.17            | 10 mm                                   | MIMO            | 0697M                | 58.5             | back  | 91.0           | 0.569                 | 0.233    | 1.062                  | 1.099                       | 0.272             |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 13.0                                | 12.74                         | 13.0                                | 12.88                         | 0.00             | 10 mm                                   | MIMO            | 0697M                | 58.5             | front | 91.0           | 0.025                 | 0.008    | 1.062                  | 1.099                       | 0.009             |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 13.0                                | 12.74                         | 13.0                                | 12.88                         | -0.16            | 10 mm                                   | MIMO            | 0697M                | 58.5             | top   | 91.0           | 0.057                 | -        | 1.062                  | 1.099                       | -                 |        |
| 5775                                     | 155 | 802.11ac | OFDM    | 80              | 13.0                                | 12.74                         | 13.0                                | 12.88                         | 0.19             | 10 mm                                   | MIMO            | 0697M                | 58.5             | left  | 91.0           | 0.178                 | 0.066    | 1.062                  | 1.099                       | 0.077             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |     |          |         |                 |                                     |                               |                                     |                               |                  |                                         |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
| Spatial Peak                             |     |          |         |                 |                                     |                               |                                     |                               |                  | Body                                    |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |
| Uncontrolled Exposure/General Population |     |          |         |                 |                                     |                               |                                     |                               |                  | 1.6 W/kg (mW/g)<br>averaged over 1 gram |                 |                      |                  |       |                |                       |          |                        |                             |                   |        |

DTS and NII MIMO were additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz and 5 GHz WLAN. 2.4 GHz WIFI was not transmitting during NII MIMO evaluations and 5 GHz WIFI was not transmitting during DTS MIMO evaluations.

**Table 11-66**  
**DSS Hotspot SAR**

| MEASUREMENT RESULTS                      |     |           |         |                             |                       |                  |                      |                      |                  |       |                |          |                             |                             |                   |        |
|------------------------------------------|-----|-----------|---------|-----------------------------|-----------------------|------------------|----------------------|----------------------|------------------|-------|----------------|----------|-----------------------------|-----------------------------|-------------------|--------|
| FREQUENCY                                |     | Mode      | Service | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Spacing              | Device Serial Number | Data Rate (Mbps) | Side  | Duty Cycle (%) | SAR (1g) | Scaling Factor (Cond Power) | Scaling Factor (Duty Cycle) | Reported SAR (1g) | Plot # |
| MHz                                      | Ch. |           |         |                             |                       |                  |                      |                      |                  |       |                | (W/kg)   |                             |                             | (W/kg)            |        |
| 2480                                     | 78  | Bluetooth | FHSS    | 16.5                        | 16.26                 | -0.12            | 10 mm                | 1175M                | 1                | back  | 77.3           | 0.055    | 1.057                       | 1.294                       | 0.075             |        |
| 2480                                     | 78  | Bluetooth | FHSS    | 16.5                        | 16.26                 | 0.14             | 10 mm                | 1175M                | 1                | front | 77.3           | 0.064    | 1.057                       | 1.294                       | 0.088             |        |
| 2480                                     | 78  | Bluetooth | FHSS    | 16.5                        | 16.26                 | -0.14            | 10 mm                | 1175M                | 1                | top   | 77.3           | 0.182    | 1.057                       | 1.294                       | 0.249             | A87    |
| 2480                                     | 78  | Bluetooth | FHSS    | 16.5                        | 16.26                 | 0.12             | 10 mm                | 1175M                | 1                | left  | 77.3           | 0.014    | 1.057                       | 1.294                       | 0.019             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |     |           |         |                             |                       |                  | Body                 |                      |                  |       |                |          |                             |                             |                   |        |
| Spatial Peak                             |     |           |         |                             |                       |                  | 1.6 W/kg (mW/g)      |                      |                  |       |                |          |                             |                             |                   |        |
| Uncontrolled Exposure/General Population |     |           |         |                             |                       |                  | averaged over 1 gram |                      |                  |       |                |          |                             |                             |                   |        |

|                                      |                                                                                                                           |                               |                                                                                       |                                        |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                   | <br>PCTEST<br>Proud to be part of ROHM | <b>SAR EVALUATION REPORT</b>  |  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                        | DUT Type:<br>Portable Handset | Page 230 of 305                                                                       |                                        |

## 11.4 Standalone Phablet SAR Data

Table 11-67  
GPRS/UMTS/CDMA Phablet SAR Data

| MEASUREMENT RESULTS                      |      |           |             |                             |                       |                  |         |              |                      |                        |            |        |                  |                |                           |        |
|------------------------------------------|------|-----------|-------------|-----------------------------|-----------------------|------------------|---------|--------------|----------------------|------------------------|------------|--------|------------------|----------------|---------------------------|--------|
| FREQUENCY                                |      | Mode      | Service     | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Spacing | Antenna Size | Device Serial Number | # of Time Slots        | Duty Cycle | Side   | SAR (10g) (W/kg) | Scaling Factor | Reported SAR (10g) (W/kg) | Plot # |
| MHz                                      | Ch.  |           |             |                             |                       |                  |         |              |                      |                        |            |        |                  |                |                           |        |
| 1880.00                                  | 600  | PCS CDMA  | EVDO Rev. 0 | 24.0                        | 22.99                 | -0.02            | 8 mm    | 35           | 0100M                | N/A                    | 1:1        | back   | 0.810            | 1.262          | 1.022                     |        |
| 1880.00                                  | 600  | PCS CDMA  | EVDO Rev. 0 | 24.0                        | 22.99                 | 0.02             | 6 mm    | 35           | 0100M                | N/A                    | 1:1        | front  | 0.896            | 1.262          | 1.131                     |        |
| 1880.00                                  | 600  | PCS CDMA  | EVDO Rev. 0 | 24.0                        | 22.99                 | 0.00             | 12 mm   | 35           | 0100M                | N/A                    | 1:1        | bottom | 1.070            | 1.262          | 1.350                     |        |
| 1880.00                                  | 600  | PCS CDMA  | EVDO Rev. 0 | 24.0                        | 22.99                 | -0.11            | 0 mm    | 35           | 0100M                | N/A                    | 1:1        | right  | 0.363            | 1.262          | 0.458                     |        |
| 1880.00                                  | 600  | PCS CDMA  | EVDO Rev. 0 | 24.0                        | 22.99                 | 0.00             | 0 mm    | 35           | 0100M                | N/A                    | 1:1        | left   | 0.281            | 1.262          | 0.355                     |        |
| 1851.25                                  | 25   | PCS CDMA  | EVDO Rev. 0 | 22.0                        | 21.80                 | -0.05            | 0 mm    | 35           | 0100M                | N/A                    | 1:1        | back   | 2.650            | 1.047          | 2.775                     |        |
| 1880.00                                  | 600  | PCS CDMA  | EVDO Rev. 0 | 22.0                        | 21.41                 | -0.11            | 0 mm    | 35           | 0100M                | N/A                    | 1:1        | back   | 2.550            | 1.146          | 2.922                     |        |
| 1908.75                                  | 1175 | PCS CDMA  | EVDO Rev. 0 | 22.0                        | 21.78                 | 0.13             | 0 mm    | 35           | 0100M                | N/A                    | 1:1        | back   | 2.840            | 1.052          | 2.988                     |        |
| 1851.25                                  | 25   | PCS CDMA  | EVDO Rev. 0 | 22.0                        | 21.80                 | 0.01             | 0 mm    | 35           | 0100M                | N/A                    | 1:1        | front  | 2.360            | 1.047          | 2.471                     |        |
| 1880.00                                  | 600  | PCS CDMA  | EVDO Rev. 0 | 22.0                        | 21.41                 | 0.03             | 0 mm    | 35           | 0100M                | N/A                    | 1:1        | front  | 2.260            | 1.146          | 2.590                     |        |
| 1908.75                                  | 1175 | PCS CDMA  | EVDO Rev. 0 | 22.0                        | 21.78                 | 0.08             | 0 mm    | 35           | 0100M                | N/A                    | 1:1        | front  | 2.500            | 1.052          | 2.630                     |        |
| 1851.25                                  | 25   | PCS CDMA  | EVDO Rev. 0 | 22.0                        | 21.80                 | -0.16            | 0 mm    | 35           | 0100M                | N/A                    | 1:1        | bottom | 2.740            | 1.047          | 2.869                     |        |
| 1880.00                                  | 600  | PCS CDMA  | EVDO Rev. 0 | 22.0                        | 21.41                 | -0.12            | 0 mm    | 35           | 0100M                | N/A                    | 1:1        | bottom | 2.380            | 1.146          | 2.727                     |        |
| 1908.75                                  | 1175 | PCS CDMA  | EVDO Rev. 0 | 22.0                        | 21.78                 | -0.20            | 0 mm    | 35           | 0100M                | N/A                    | 1:1        | bottom | 2.880            | 1.052          | 3.030                     | A88    |
| 1880.00                                  | 661  | GSM 1900  | GPRS        | 27.5                        | 27.14                 | -0.03            | 8 mm    | N/A          | 0100M                | 3                      | 1:2.76     | back   | 0.696            | 1.086          | 0.756                     |        |
| 1880.00                                  | 661  | GSM 1900  | GPRS        | 27.5                        | 27.14                 | 0.01             | 6 mm    | N/A          | 0100M                | 3                      | 1:2.76     | front  | 0.790            | 1.086          | 0.858                     |        |
| 1880.00                                  | 661  | GSM 1900  | GPRS        | 27.5                        | 27.14                 | -0.02            | 12 mm   | N/A          | 0100M                | 3                      | 1:2.76     | bottom | 0.709            | 1.086          | 0.770                     |        |
| 1880.00                                  | 661  | GSM 1900  | GPRS        | 27.5                        | 27.14                 | -0.07            | 0 mm    | N/A          | 0100M                | 3                      | 1:2.76     | right  | 0.324            | 1.086          | 0.352                     |        |
| 1880.00                                  | 661  | GSM 1900  | GPRS        | 27.5                        | 27.14                 | -0.01            | 0 mm    | N/A          | 0100M                | 3                      | 1:2.76     | left   | 0.246            | 1.086          | 0.267                     |        |
| 1850.20                                  | 512  | GSM 1900  | GPRS        | 24.3                        | 23.34                 | 0.00             | 0 mm    | N/A          | 0100M                | 4                      | 1:2.076    | back   | 1.350            | 1.247          | 1.683                     |        |
| 1880.00                                  | 661  | GSM 1900  | GPRS        | 24.3                        | 23.21                 | -0.07            | 0 mm    | N/A          | 0100M                | 4                      | 1:2.076    | back   | 1.260            | 1.285          | 1.619                     |        |
| 1909.80                                  | 810  | GSM 1900  | GPRS        | 24.3                        | 23.15                 | 0.00             | 0 mm    | N/A          | 0100M                | 4                      | 1:2.076    | back   | 1.460            | 1.303          | 1.902                     | A89    |
| 1880.00                                  | 661  | GSM 1900  | GPRS        | 24.3                        | 23.21                 | 0.05             | 0 mm    | N/A          | 0100M                | 4                      | 1:2.076    | front  | 1.140            | 1.285          | 1.465                     |        |
| 1880.00                                  | 661  | GSM 1900  | GPRS        | 24.3                        | 23.21                 | -0.10            | 0 mm    | N/A          | 0100M                | 4                      | 1:2.076    | bottom | 1.120            | 1.285          | 1.439                     |        |
| 1732.40                                  | 1412 | UMTS 1750 | RMC         | 24.5                        | 23.89                 | -0.03            | 8 mm    | 9            | 0100M                | N/A                    | 1:1        | back   | 1.080            | 1.151          | 1.243                     |        |
| 1732.40                                  | 1412 | UMTS 1750 | RMC         | 24.5                        | 23.89                 | -0.04            | 6 mm    | 9            | 0100M                | N/A                    | 1:1        | front  | 1.230            | 1.151          | 1.416                     |        |
| 1732.40                                  | 1412 | UMTS 1750 | RMC         | 24.5                        | 23.89                 | 0.02             | 12 mm   | 9            | 0100M                | N/A                    | 1:1        | bottom | 0.945            | 1.151          | 1.088                     |        |
| 1732.40                                  | 1412 | UMTS 1750 | RMC         | 24.5                        | 23.89                 | 0.00             | 0 mm    | 9            | 0100M                | N/A                    | 1:1        | right  | 0.378            | 1.151          | 0.435                     |        |
| 1732.40                                  | 1412 | UMTS 1750 | RMC         | 24.5                        | 23.89                 | 0.16             | 0 mm    | 9            | 0100M                | N/A                    | 1:1        | left   | 0.161            | 1.151          | 0.185                     |        |
| 1712.40                                  | 1312 | UMTS 1750 | RMC         | 21.0                        | 20.60                 | -0.08            | 0 mm    | 9            | 0100M                | N/A                    | 1:1        | back   | 2.220            | 1.096          | 2.433                     |        |
| 1732.40                                  | 1412 | UMTS 1750 | RMC         | 21.0                        | 20.58                 | -0.04            | 0 mm    | 9            | 0100M                | N/A                    | 1:1        | back   | 2.210            | 1.102          | 2.435                     |        |
| 1752.60                                  | 1513 | UMTS 1750 | RMC         | 21.0                        | 20.53                 | -0.17            | 0 mm    | 9            | 0100M                | N/A                    | 1:1        | back   | 2.140            | 1.114          | 2.384                     |        |
| 1712.40                                  | 1312 | UMTS 1750 | RMC         | 21.0                        | 20.60                 | -0.03            | 0 mm    | 9            | 0100M                | N/A                    | 1:1        | front  | 2.040            | 1.096          | 2.236                     |        |
| 1732.40                                  | 1412 | UMTS 1750 | RMC         | 21.0                        | 20.58                 | 0.18             | 0 mm    | 9            | 0100M                | N/A                    | 1:1        | front  | 2.080            | 1.102          | 2.292                     |        |
| 1752.60                                  | 1513 | UMTS 1750 | RMC         | 21.0                        | 20.53                 | -0.02            | 0 mm    | 9            | 0100M                | N/A                    | 1:1        | front  | 1.970            | 1.114          | 2.195                     |        |
| 1712.40                                  | 1312 | UMTS 1750 | RMC         | 21.0                        | 20.60                 | 0.04             | 0 mm    | 9            | 0100M                | N/A                    | 1:1        | bottom | 2.840            | 1.096          | 3.113                     | A90    |
| 1732.40                                  | 1412 | UMTS 1750 | RMC         | 21.0                        | 20.58                 | 0.04             | 0 mm    | 9            | 0100M                | N/A                    | 1:1        | bottom | 2.750            | 1.102          | 3.031                     |        |
| 1752.60                                  | 1513 | UMTS 1750 | RMC         | 21.0                        | 20.53                 | 0.04             | 0 mm    | 9            | 0100M                | N/A                    | 1:1        | bottom | 2.490            | 1.114          | 2.774                     |        |
| 1880.00                                  | 9400 | UMTS 1900 | RMC         | 24.0                        | 23.34                 | -0.03            | 8 mm    | 109          | 0100M                | N/A                    | 1:1        | back   | 0.954            | 1.164          | 1.110                     |        |
| 1880.00                                  | 9400 | UMTS 1900 | RMC         | 24.0                        | 23.34                 | -0.01            | 6 mm    | 109          | 0100M                | N/A                    | 1:1        | front  | 1.060            | 1.164          | 1.234                     |        |
| 1880.00                                  | 9400 | UMTS 1900 | RMC         | 24.0                        | 23.34                 | 0.01             | 12 mm   | 109          | 0100M                | N/A                    | 1:1        | bottom | 1.030            | 1.164          | 1.199                     |        |
| 1880.00                                  | 9400 | UMTS 1900 | RMC         | 24.0                        | 23.34                 | -0.02            | 0 mm    | 109          | 0100M                | N/A                    | 1:1        | right  | 0.419            | 1.164          | 0.488                     |        |
| 1880.00                                  | 9400 | UMTS 1900 | RMC         | 24.0                        | 23.34                 | 0.00             | 0 mm    | 109          | 0100M                | N/A                    | 1:1        | left   | 0.301            | 1.164          | 0.350                     |        |
| 1852.40                                  | 9262 | UMTS 1900 | RMC         | 21.0                        | 20.40                 | -0.05            | 0 mm    | 109          | 0100M                | N/A                    | 1:1        | back   | 2.280            | 1.148          | 2.617                     |        |
| 1880.00                                  | 9400 | UMTS 1900 | RMC         | 21.0                        | 20.25                 | -0.06            | 0 mm    | 109          | 0100M                | N/A                    | 1:1        | back   | 2.190            | 1.189          | 2.604                     |        |
| 1907.60                                  | 9538 | UMTS 1900 | RMC         | 21.0                        | 20.50                 | -0.06            | 0 mm    | 109          | 0100M                | N/A                    | 1:1        | back   | 2.380            | 1.122          | 2.670                     | A91    |
| 1852.40                                  | 9262 | UMTS 1900 | RMC         | 21.0                        | 20.40                 | -0.02            | 0 mm    | 109          | 0100M                | N/A                    | 1:1        | front  | 2.030            | 1.148          | 2.330                     |        |
| 1880.00                                  | 9400 | UMTS 1900 | RMC         | 21.0                        | 20.25                 | 0.00             | 0 mm    | 109          | 0100M                | N/A                    | 1:1        | front  | 1.900            | 1.189          | 2.259                     |        |
| 1907.60                                  | 9538 | UMTS 1900 | RMC         | 21.0                        | 20.50                 | -0.01            | 0 mm    | 109          | 0100M                | N/A                    | 1:1        | front  | 2.050            | 1.122          | 2.300                     |        |
| 1852.40                                  | 9262 | UMTS 1900 | RMC         | 21.0                        | 20.40                 | 0.00             | 0 mm    | 109          | 0100M                | N/A                    | 1:1        | bottom | 2.180            | 1.148          | 2.503                     |        |
| 1880.00                                  | 9400 | UMTS 1900 | RMC         | 21.0                        | 20.25                 | -0.02            | 0 mm    | 109          | 0100M                | N/A                    | 1:1        | bottom | 1.940            | 1.189          | 2.307                     |        |
| 1907.60                                  | 9538 | UMTS 1900 | RMC         | 21.0                        | 20.50                 | -0.02            | 0 mm    | 109          | 0100M                | N/A                    | 1:1        | bottom | 2.240            | 1.122          | 2.513                     |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |      |           |             |                             |                       |                  |         |              |                      | Phablet                |            |        |                  |                |                           |        |
| Spatial Peak                             |      |           |             |                             |                       |                  |         |              |                      | 4.0 W/kg (mW/g)        |            |        |                  |                |                           |        |
| Uncontrolled Exposure/General Population |      |           |             |                             |                       |                  |         |              |                      | averaged over 10 grams |            |        |                  |                |                           |        |

|                                      |                                                                                                                               |                               |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  PCTEST<br>Proud to be part of the element | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                            | DUT Type:<br>Portable Handset |                                                                                       | Page 231 of 305                 |

**Table 11-68**  
**LTE Band 66 (AWS) Phablet SAR**

| MEASUREMENT RESULTS                      |                      |           |        |      |                      |                                   |                          |                     |          |                        |                  |            |         |           |         |       |            |           |                   |              |        |     |  |  |  |  |  |
|------------------------------------------|----------------------|-----------|--------|------|----------------------|-----------------------------------|--------------------------|---------------------|----------|------------------------|------------------|------------|---------|-----------|---------|-------|------------|-----------|-------------------|--------------|--------|-----|--|--|--|--|--|
| 1 CC Uplink  <br>2 CC Uplink             | Component<br>Carrier | FREQUENCY |        | Mode | Bandwidth<br>[MHz]   | Maximum<br>Allowed<br>Power [dBm] | Conducted<br>Power [dBm] | Power<br>Drift [dB] | MPR [dB] | Antenna<br>State       | Serial<br>Number | Modulation | RB Size | RB Offset | Spacing | Side  | Duty Cycle | SAR (10g) | Scaling<br>Factor | Reported SAR | Prot # |     |  |  |  |  |  |
|                                          |                      | MHz       | Ch.    |      |                      |                                   |                          |                     |          |                        |                  |            |         |           |         |       |            | (W/kg)    |                   | (W/kg)       |        |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 24.5                     | 23.68               | -0.03    | 0                      | 2                | 0071M      | QPSK    | 1         | 50      | 8 mm  | back       | 1:1       | 1.040             | 1.208        | 1.256  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 23.5                     | 22.91               | -0.04    | 1                      | 2                | 0071M      | QPSK    | 50        | 25      | 8 mm  | back       | 1:1       | 0.883             | 1.146        | 1.012  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 24.5                     | 23.68               | -0.05    | 0                      | 5                | 0071M      | QPSK    | 1         | 50      | 6 mm  | front      | 1:1       | 1.300             | 1.208        | 1.570  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 23.5                     | 22.91               | -0.03    | 1                      | 5                | 0071M      | QPSK    | 50        | 25      | 6 mm  | front      | 1:1       | 1.090             | 1.146        | 1.249  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 24.5                     | 23.68               | -0.02    | 0                      | 20               | 0071M      | QPSK    | 1         | 50      | 12 mm | bottom     | 1:1       | 0.996             | 1.208        | 1.203  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 23.5                     | 22.91               | -0.04    | 1                      | 20               | 0071M      | QPSK    | 50        | 25      | 12 mm | bottom     | 1:1       | 0.824             | 1.146        | 0.944  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 24.5                     | 23.68               | 0.00     | 0                      | 4                | 0071M      | QPSK    | 1         | 50      | 0 mm  | right      | 1:1       | 0.470             | 1.208        | 0.568  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 23.5                     | 22.91               | 0.00     | 1                      | 4                | 0071M      | QPSK    | 50        | 25      | 0 mm  | right      | 1:1       | 0.391             | 1.146        | 0.448  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 24.5                     | 23.68               | 0.00     | 0                      | 4                | 0071M      | QPSK    | 1         | 50      | 0 mm  | left       | 1:1       | 0.309             | 1.208        | 0.373  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 23.5                     | 22.91               | -0.02    | 1                      | 4                | 0071M      | QPSK    | 50        | 25      | 0 mm  | left       | 1:1       | 0.256             | 1.146        | 0.293  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 20.5                     | 20.49               | 0.03     | 0                      | 0                | 0071M      | QPSK    | 1         | 50      | 0 mm  | back       | 1:1       | 2.630             | 1.002        | 2.635  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1745.00   | 132322 | Mid  | LTE Band 66<br>(AWS) | 20                                | 20.5                     | 20.08               | -0.01    | 0                      | 108              | 0071M      | QPSK    | 1         | 0       | 0 mm  | back       | 1:1       | 2.500             | 1.102        | 2.755  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1770.00   | 132572 | High | LTE Band 66<br>(AWS) | 20                                | 20.5                     | 20.26               | -0.01    | 0                      | 108              | 0071M      | QPSK    | 1         | 0       | 0 mm  | back       | 1:1       | 2.790             | 1.057        | 2.949  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 20.5                     | 20.49               | -0.01    | 0                      | 0                | 0071M      | QPSK    | 50        | 25      | 0 mm  | back       | 1:1       | 2.810             | 1.002        | 2.816  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1745.00   | 132322 | Mid  | LTE Band 66<br>(AWS) | 20                                | 20.5                     | 20.38               | 0.16     | 0                      | 108              | 0071M      | QPSK    | 50        | 25      | 0 mm  | back       | 1:1       | 2.690             | 1.028        | 2.765  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1770.00   | 132572 | High | LTE Band 66<br>(AWS) | 20                                | 20.5                     | 20.33               | -0.04    | 0                      | 108              | 0071M      | QPSK    | 50        | 25      | 0 mm  | back       | 1:1       | 2.860             | 1.040        | 2.974  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 20.5                     | 20.43               | -0.02    | 0                      | 108              | 0071M      | QPSK    | 100       | 0       | 0 mm  | back       | 1:1       | 2.760             | 1.016        | 2.804  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 20.5                     | 20.49               | -0.06    | 0                      | 0                | 0071M      | QPSK    | 1         | 50      | 0 mm  | front      | 1:1       | 2.160             | 1.002        | 2.164  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1745.00   | 132322 | Mid  | LTE Band 66<br>(AWS) | 20                                | 20.5                     | 20.08               | -0.04    | 0                      | 0                | 0071M      | QPSK    | 1         | 0       | 0 mm  | front      | 1:1       | 2.110             | 1.102        | 2.325  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1770.00   | 132572 | High | LTE Band 66<br>(AWS) | 20                                | 20.5                     | 20.26               | 0.04     | 0                      | 0                | 0071M      | QPSK    | 1         | 0       | 0 mm  | front      | 1:1       | 2.360             | 1.057        | 2.495  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 20.5                     | 20.49               | -0.07    | 0                      | 0                | 0071M      | QPSK    | 50        | 25      | 0 mm  | front      | 1:1       | 2.290             | 1.002        | 2.295  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1745.00   | 132322 | Mid  | LTE Band 66<br>(AWS) | 20                                | 20.5                     | 20.38               | -0.05    | 0                      | 0                | 0071M      | QPSK    | 50        | 25      | 0 mm  | front      | 1:1       | 2.370             | 1.028        | 2.436  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1770.00   | 132572 | High | LTE Band 66<br>(AWS) | 20                                | 20.5                     | 20.33               | -0.06    | 0                      | 0                | 0071M      | QPSK    | 50        | 25      | 0 mm  | front      | 1:1       | 2.390             | 1.040        | 2.486  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 20.5                     | 20.43               | -0.07    | 0                      | 0                | 0071M      | QPSK    | 100       | 0       | 0 mm  | front      | 1:1       | 2.240             | 1.016        | 2.276  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 20.5                     | 20.49               | 0.01     | 0                      | 7                | 0071M      | QPSK    | 1         | 50      | 0 mm  | bottom     | 1:1       | 2.850             | 1.002        | 2.856  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1745.00   | 132322 | Mid  | LTE Band 66<br>(AWS) | 20                                | 20.5                     | 20.08               | 0.19     | 0                      | 18               | 0071M      | QPSK    | 1         | 0       | 0 mm  | bottom     | 1:1       | 2.580             | 1.102        | 2.843  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1770.00   | 132572 | High | LTE Band 66<br>(AWS) | 20                                | 20.5                     | 20.26               | 0.13     | 0                      | 18               | 0071M      | QPSK    | 1         | 0       | 0 mm  | bottom     | 1:1       | 2.690             | 1.057        | 2.843  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 20.5                     | 20.49               | 0.01     | 0                      | 7                | 0071M      | QPSK    | 50        | 25      | 0 mm  | bottom     | 1:1       | 2.840             | 1.002        | 2.846  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1745.00   | 132322 | Mid  | LTE Band 66<br>(AWS) | 20                                | 20.5                     | 20.38               | 0.18     | 0                      | 18               | 0071M      | QPSK    | 50        | 25      | 0 mm  | bottom     | 1:1       | 2.710             | 1.028        | 2.786  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1770.00   | 132572 | High | LTE Band 66<br>(AWS) | 20                                | 20.5                     | 20.33               | 0.17     | 0                      | 18               | 0071M      | QPSK    | 50        | 25      | 0 mm  | bottom     | 1:1       | 2.840             | 1.040        | 2.954  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 20.5                     | 20.43               | 0.16     | 0                      | 7                | 0071M      | QPSK    | 100       | 0       | 0 mm  | bottom     | 1:1       | 2.940             | 1.016        | 2.987  |     |  |  |  |  |  |
| 1 CC Uplink                              | N/A                  | 1715.00   | 132022 | Low  | LTE Band 66<br>(AWS) | 10                                | 20.5                     | 20.47               | 0.06     | 0                      | 47               | 0071M      | QPSK    | 50        | 0       | 0 mm  | bottom     | 1:1       | 2.850             | 1.007        | 2.870  |     |  |  |  |  |  |
| 2 CC Uplink<br>CA_66B                    | PCC                  | 1715.00   | 132022 | Low  | LTE Band 66<br>(AWS) | 10                                | 20.5                     | 20.46               | 0.07     | 0                      | 47               | 0071M      | QPSK    | 50        | 0       | 0 mm  | bottom     | 1:1       | 2.720             | 1.009        | 2.744  |     |  |  |  |  |  |
|                                          | SCC                  | 1724.90   | 132121 | Low  | LTE Band 66<br>(AWS) | 10                                |                          |                     |          |                        |                  |            | 50      | 0         |         |       |            |           |                   |              |        |     |  |  |  |  |  |
| 2 CC Uplink<br>CA_66C                    | PCC                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 20.5                     | 20.50               | -0.04    | 0                      | 7                | 0071M      | QPSK    | 100       | 0       | 0 mm  | bottom     | 1:1       | 2.980             | 1.000        | 2.980  | A92 |  |  |  |  |  |
|                                          | SCC                  | 1739.80   | 132270 | Low  | LTE Band 66<br>(AWS) | 20                                |                          |                     |          |                        |                  |            | 100     | 0         |         |       |            |           |                   |              |        |     |  |  |  |  |  |
| 2 CC Uplink<br>CA_66C                    | PCC                  | 1720.00   | 132072 | Low  | LTE Band 66<br>(AWS) | 20                                | 20.5                     | 20.50               | -0.04    | 0                      | 7                | 0071M      | QPSK    | 100       | 0       | 0 mm  | bottom     | 1:1       | 2.940             | 1.000        | 2.940  |     |  |  |  |  |  |
|                                          | SCC                  | 1739.80   | 132270 | Low  | LTE Band 66<br>(AWS) | 20                                |                          |                     |          |                        |                  |            | 100     | 0         | 1:1     |       |            |           |                   |              |        |     |  |  |  |  |  |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |                      |           |        |      |                      |                                   |                          |                     |          | Phablet                |                  |            |         |           |         |       |            |           |                   |              |        |     |  |  |  |  |  |
| Spatial Peak                             |                      |           |        |      |                      |                                   |                          |                     |          | 4.0 W/kg (mW/g)        |                  |            |         |           |         |       |            |           |                   |              |        |     |  |  |  |  |  |
| Uncontrolled Exposure/General Population |                      |           |        |      |                      |                                   |                          |                     |          | averaged over 10 grams |                  |            |         |           |         |       |            |           |                   |              |        |     |  |  |  |  |  |

Note: Blue entry represents variability measurement.

|                                      |                                                                                     |                               |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                  | DUT Type:<br>Portable Handset |                                                                                       | Page 232 of 305                 |



**Table 11-69**  
**LTE Band 25 (PCS) Phablet SAR**

| MEASUREMENT RESULTS                      |       |        |                   |                 |                             |                       |                  |                        |               |               |            |         |           |         |        |            |           |                |                    |        |
|------------------------------------------|-------|--------|-------------------|-----------------|-----------------------------|-----------------------|------------------|------------------------|---------------|---------------|------------|---------|-----------|---------|--------|------------|-----------|----------------|--------------------|--------|
| FREQUENCY                                |       |        | Mode              | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB]               | Antenna State | Serial Number | Modulation | RB Size | RB Offset | Spacing | Side   | Duty Cycle | SAR (10g) | Scaling Factor | Reported SAR (10g) | Plot # |
| Mhz                                      | Ch.   | (W/kg) |                   |                 |                             |                       |                  |                        |               |               |            |         |           |         |        |            | (W/kg)    |                |                    |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 24.5                        | 23.75                 | -0.08            | 0                      | 109           | 0060M         | QPSK       | 1       | 50        | 8 mm    | back   | 1:1        | 1.180     | 1.189          | 1.403              |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 23.5                        | 22.82                 | -0.04            | 1                      | 109           | 0060M         | QPSK       | 50      | 0         | 8 mm    | back   | 1:1        | 0.967     | 1.169          | 1.130              |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 24.5                        | 23.75                 | -0.04            | 0                      | 108           | 0060M         | QPSK       | 1       | 50        | 6 mm    | front  | 1:1        | 1.230     | 1.189          | 1.462              |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 23.5                        | 22.82                 | -0.03            | 1                      | 108           | 0060M         | QPSK       | 50      | 0         | 6 mm    | front  | 1:1        | 1.010     | 1.169          | 1.181              |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 24.5                        | 23.75                 | -0.03            | 0                      | 108           | 0060M         | QPSK       | 1       | 50        | 12 mm   | bottom | 1:1        | 0.991     | 1.189          | 1.178              |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 23.5                        | 22.82                 | 0.00             | 1                      | 108           | 0060M         | QPSK       | 50      | 0         | 12 mm   | bottom | 1:1        | 0.830     | 1.169          | 0.970              |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 24.5                        | 23.75                 | -0.15            | 0                      | 109           | 0060M         | QPSK       | 1       | 50        | 0 mm    | right  | 1:1        | 0.442     | 1.189          | 0.526              |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 23.5                        | 22.82                 | -0.15            | 1                      | 109           | 0060M         | QPSK       | 50      | 0         | 0 mm    | right  | 1:1        | 0.378     | 1.169          | 0.442              |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 24.5                        | 23.75                 | 0.00             | 0                      | 26            | 0060M         | QPSK       | 1       | 50        | 0 mm    | left   | 1:1        | 0.244     | 1.189          | 0.290              |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 23.5                        | 22.82                 | -0.07            | 1                      | 26            | 0060M         | QPSK       | 50      | 0         | 0 mm    | left   | 1:1        | 0.218     | 1.169          | 0.255              |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 22.0                        | 21.80                 | 0.02             | 0                      | 109           | 0060M         | QPSK       | 1       | 0         | 0 mm    | back   | 1:1        | 2.490     | 1.047          | 2.607              |        |
| 1882.50                                  | 26365 | Mid    | LTE Band 25 (PCS) | 20              | 22.0                        | 21.68                 | -0.07            | 0                      | 109           | 0060M         | QPSK       | 1       | 50        | 0 mm    | back   | 1:1        | 2.400     | 1.076          | 2.582              |        |
| 1905.00                                  | 26590 | High   | LTE Band 25 (PCS) | 20              | 22.0                        | 21.76                 | -0.04            | 0                      | 109           | 0060M         | QPSK       | 1       | 50        | 0 mm    | back   | 1:1        | 2.380     | 1.057          | 2.516              |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 22.0                        | 21.90                 | 0.02             | 0                      | 109           | 0060M         | QPSK       | 50      | 25        | 0 mm    | back   | 1:1        | 2.540     | 1.023          | 2.598              |        |
| 1882.50                                  | 26365 | Mid    | LTE Band 25 (PCS) | 20              | 22.0                        | 21.84                 | -0.08            | 0                      | 109           | 0060M         | QPSK       | 50      | 50        | 0 mm    | back   | 1:1        | 2.480     | 1.038          | 2.574              |        |
| 1905.00                                  | 26590 | High   | LTE Band 25 (PCS) | 20              | 22.0                        | 21.88                 | -0.06            | 0                      | 109           | 0060M         | QPSK       | 50      | 25        | 0 mm    | back   | 1:1        | 2.540     | 1.028          | 2.611              |        |
| 1905.00                                  | 26590 | High   | LTE Band 25 (PCS) | 20              | 22.0                        | 21.75                 | -0.02            | 0                      | 109           | 0060M         | QPSK       | 100     | 0         | 0 mm    | back   | 1:1        | 2.480     | 1.059          | 2.626              |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 22.0                        | 21.80                 | -0.01            | 0                      | 109           | 0060M         | QPSK       | 1       | 0         | 0 mm    | front  | 1:1        | 2.320     | 1.047          | 2.429              |        |
| 1882.50                                  | 26365 | Mid    | LTE Band 25 (PCS) | 20              | 22.0                        | 21.68                 | 0.07             | 0                      | 109           | 0060M         | QPSK       | 1       | 50        | 0 mm    | front  | 1:1        | 2.140     | 1.076          | 2.303              |        |
| 1905.00                                  | 26590 | High   | LTE Band 25 (PCS) | 20              | 22.0                        | 21.76                 | 0.08             | 0                      | 109           | 0060M         | QPSK       | 1       | 50        | 0 mm    | front  | 1:1        | 2.100     | 1.057          | 2.220              |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 22.0                        | 21.90                 | 0.00             | 0                      | 109           | 0060M         | QPSK       | 50      | 25        | 0 mm    | front  | 1:1        | 2.340     | 1.023          | 2.394              |        |
| 1882.50                                  | 26365 | Mid    | LTE Band 25 (PCS) | 20              | 22.0                        | 21.84                 | 0.06             | 0                      | 109           | 0060M         | QPSK       | 50      | 50        | 0 mm    | front  | 1:1        | 2.140     | 1.038          | 2.221              |        |
| 1905.00                                  | 26590 | High   | LTE Band 25 (PCS) | 20              | 22.0                        | 21.88                 | 0.10             | 0                      | 109           | 0060M         | QPSK       | 50      | 25        | 0 mm    | front  | 1:1        | 2.180     | 1.028          | 2.241              |        |
| 1905.00                                  | 26590 | High   | LTE Band 25 (PCS) | 20              | 22.0                        | 21.75                 | 0.11             | 0                      | 109           | 0060M         | QPSK       | 100     | 0         | 0 mm    | front  | 1:1        | 2.120     | 1.059          | 2.245              |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 22.0                        | 21.80                 | -0.17            | 0                      | 108           | 0060M         | QPSK       | 1       | 0         | 0 mm    | bottom | 1:1        | 2.800     | 1.047          | 2.932              |        |
| 1882.50                                  | 26365 | Mid    | LTE Band 25 (PCS) | 20              | 22.0                        | 21.68                 | -0.15            | 0                      | 108           | 0060M         | QPSK       | 1       | 50        | 0 mm    | bottom | 1:1        | 2.800     | 1.076          | 3.013              |        |
| 1905.00                                  | 26590 | High   | LTE Band 25 (PCS) | 20              | 22.0                        | 21.76                 | -0.17            | 0                      | 18            | 0060M         | QPSK       | 1       | 50        | 0 mm    | bottom | 1:1        | 2.830     | 1.057          | 2.991              |        |
| 1860.00                                  | 26140 | Low    | LTE Band 25 (PCS) | 20              | 22.0                        | 21.90                 | -0.12            | 0                      | 108           | 0060M         | QPSK       | 50      | 25        | 0 mm    | bottom | 1:1        | 2.820     | 1.023          | 2.885              |        |
| 1882.50                                  | 26365 | Mid    | LTE Band 25 (PCS) | 20              | 22.0                        | 21.84                 | -0.16            | 0                      | 108           | 0060M         | QPSK       | 50      | 50        | 0 mm    | bottom | 1:1        | 2.930     | 1.038          | 3.041              |        |
| 1905.00                                  | 26590 | High   | LTE Band 25 (PCS) | 20              | 22.0                        | 21.88                 | -0.14            | 0                      | 18            | 0060M         | QPSK       | 50      | 25        | 0 mm    | bottom | 1:1        | 3.050     | 1.028          | 3.135              | A93    |
| 1905.00                                  | 26590 | High   | LTE Band 25 (PCS) | 20              | 22.0                        | 21.75                 | -0.15            | 0                      | 18            | 0060M         | QPSK       | 100     | 0         | 0 mm    | bottom | 1:1        | 2.950     | 1.059          | 3.124              |        |
| 1905.00                                  | 26590 | High   | LTE Band 25 (PCS) | 20              | 22.0                        | 21.88                 | -0.14            | 0                      | 18            | 0060M         | QPSK       | 50      | 25        | 0 mm    | bottom | 1:1        | 3.030     | 1.028          | 3.115              |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |       |        |                   |                 |                             |                       |                  | Phablet                |               |               |            |         |           |         |        |            |           |                |                    |        |
| Spatial Peak                             |       |        |                   |                 |                             |                       |                  | 4.0 W/kg (mW/g)        |               |               |            |         |           |         |        |            |           |                |                    |        |
| Uncontrolled Exposure/General Population |       |        |                   |                 |                             |                       |                  | averaged over 10 grams |               |               |            |         |           |         |        |            |           |                |                    |        |

Note: Blue entry represents variability measurement.

|                                      |                                                                                                                                                                                                                                                                                             |                               |                                 |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   | <div><b>PCTEST</b><br/><small>Proud to be part of ROEMER</small></div> <div>SAR EVALUATION REPORT</div> <div></div> |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                          | DUT Type:<br>Portable Handset | Page 233 of 305                 |

**Table 11-70**  
**LTE Band 30 Phablet SAR**

| MEASUREMENT RESULTS                                                                               |       |     |             |                 |                             |                       |                  |                                                      |               |            |         |           |         |        |            |           |                |                    |        |
|---------------------------------------------------------------------------------------------------|-------|-----|-------------|-----------------|-----------------------------|-----------------------|------------------|------------------------------------------------------|---------------|------------|---------|-----------|---------|--------|------------|-----------|----------------|--------------------|--------|
| FREQUENCY                                                                                         |       |     | Mode        | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB]                                             | Serial Number | Modulation | RB Size | RB Offset | Spacing | Side   | Duty Cycle | SAR (10g) | Scaling Factor | Reported SAR (10g) | Plot # |
| MHz                                                                                               | Ch.   |     |             |                 |                             |                       |                  |                                                      |               |            |         |           |         |        |            | (W/kg)    |                | (W/kg)             |        |
| 2310.00                                                                                           | 27710 | Mid | LTE Band 30 | 10              | 24.0                        | 23.58                 | 0.12             | 0                                                    | 0060M         | QPSK       | 1       | 49        | 0 mm    | back   | 1:1        | 2.640     | 1.102          | 2.909              | A94    |
| 2310.00                                                                                           | 27710 | Mid | LTE Band 30 | 10              | 23.0                        | 22.63                 | 0.17             | 1                                                    | 0060M         | QPSK       | 25      | 12        | 0 mm    | back   | 1:1        | 2.220     | 1.089          | 2.418              |        |
| 2310.00                                                                                           | 27710 | Mid | LTE Band 30 | 10              | 23.0                        | 22.60                 | 0.18             | 1                                                    | 0060M         | QPSK       | 50      | 0         | 0 mm    | back   | 1:1        | 2.200     | 1.096          | 2.411              |        |
| 2310.00                                                                                           | 27710 | Mid | LTE Band 30 | 10              | 24.0                        | 23.58                 | 0.17             | 0                                                    | 0060M         | QPSK       | 1       | 49        | 0 mm    | front  | 1:1        | 1.970     | 1.102          | 2.171              |        |
| 2310.00                                                                                           | 27710 | Mid | LTE Band 30 | 10              | 23.0                        | 22.63                 | 0.16             | 1                                                    | 0060M         | QPSK       | 25      | 12        | 0 mm    | front  | 1:1        | 1.700     | 1.089          | 1.851              |        |
| 2310.00                                                                                           | 27710 | Mid | LTE Band 30 | 10              | 23.0                        | 22.60                 | 0.08             | 1                                                    | 0060M         | QPSK       | 50      | 0         | 0 mm    | front  | 1:1        | 1.720     | 1.096          | 1.885              |        |
| 2310.00                                                                                           | 27710 | Mid | LTE Band 30 | 10              | 24.0                        | 23.58                 | -0.14            | 0                                                    | 0060M         | QPSK       | 1       | 49        | 0 mm    | bottom | 1:1        | 2.300     | 1.102          | 2.535              |        |
| 2310.00                                                                                           | 27710 | Mid | LTE Band 30 | 10              | 23.0                        | 22.63                 | -0.21            | 1                                                    | 0060M         | QPSK       | 25      | 12        | 0 mm    | bottom | 1:1        | 2.080     | 1.089          | 2.265              |        |
| 2310.00                                                                                           | 27710 | Mid | LTE Band 30 | 10              | 23.0                        | 22.60                 | 0.13             | 1                                                    | 0060M         | QPSK       | 50      | 0         | 0 mm    | bottom | 1:1        | 2.030     | 1.096          | 2.225              |        |
| 2310.00                                                                                           | 27710 | Mid | LTE Band 30 | 10              | 24.0                        | 23.58                 | -0.10            | 0                                                    | 0060M         | QPSK       | 1       | 49        | 0 mm    | right  | 1:1        | 0.385     | 1.102          | 0.424              |        |
| 2310.00                                                                                           | 27710 | Mid | LTE Band 30 | 10              | 23.0                        | 22.63                 | -0.14            | 1                                                    | 0060M         | QPSK       | 25      | 12        | 0 mm    | right  | 1:1        | 0.349     | 1.089          | 0.380              |        |
| 2310.00                                                                                           | 27710 | Mid | LTE Band 30 | 10              | 24.0                        | 23.58                 | -0.01            | 0                                                    | 0060M         | QPSK       | 1       | 49        | 0 mm    | left   | 1:1        | 0.173     | 1.102          | 0.191              |        |
| 2310.00                                                                                           | 27710 | Mid | LTE Band 30 | 10              | 23.0                        | 22.63                 | 0.00             | 1                                                    | 0060M         | QPSK       | 25      | 12        | 0 mm    | left   | 1:1        | 0.140     | 1.089          | 0.152              |        |
| 2310.00                                                                                           | 27710 | Mid | LTE Band 30 | 10              | 24.0                        | 23.58                 | 0.12             | 0                                                    | 0060M         | QPSK       | 1       | 49        | 0 mm    | back   | 1:1        | 2.620     | 1.102          | 2.887              |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |     |             |                 |                             |                       |                  | Phablet<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |               |            |         |           |         |        |            |           |                |                    |        |

Note: Blue entry represents variability measurement.

**Table 11-71**  
**LTE Band 7 Phablet SAR**

| MEASUREMENT RESULTS                                                                               |       |      |                 |                             |                       |                  |          |                                                      |            |         |           |         |       |            |           |                |                    |        |     |
|---------------------------------------------------------------------------------------------------|-------|------|-----------------|-----------------------------|-----------------------|------------------|----------|------------------------------------------------------|------------|---------|-----------|---------|-------|------------|-----------|----------------|--------------------|--------|-----|
| FREQUENCY                                                                                         |       | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Serial Number                                        | Modulation | RB Size | RB Offset | Spacing | Side  | Duty Cycle | SAR (10g) | Scaling Factor | Reported SAR (10g) | Plot # |     |
| MHz                                                                                               | Ch.   |      |                 |                             |                       |                  |          |                                                      |            |         |           |         |       |            | (W/kg)    |                | (W/kg)             |        |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 24.0                  | 23.17            | 0.10     | 0                                                    | 0090M      | QPSK    | 1         | 0       | 8 mm  | back       | 1:1       | 0.471          | 1.211              | 0.570  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 23.0                  | 22.22            | 0.18     | 1                                                    | 0090M      | QPSK    | 50        | 0       | 8 mm  | back       | 1:1       | 0.386          | 1.197              | 0.462  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 24.0                  | 23.17            | -0.19    | 0                                                    | 0090M      | QPSK    | 1         | 0       | 6 mm  | front      | 1:1       | 0.491          | 1.211              | 0.595  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 23.0                  | 22.22            | -0.12    | 1                                                    | 0090M      | QPSK    | 50        | 0       | 6 mm  | front      | 1:1       | 0.408          | 1.197              | 0.488  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 24.0                  | 23.17            | 0.02     | 0                                                    | 0090M      | QPSK    | 1         | 0       | 12 mm | bottom     | 1:1       | 0.413          | 1.211              | 0.500  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 23.0                  | 22.22            | -0.01    | 1                                                    | 0090M      | QPSK    | 50        | 0       | 12 mm | bottom     | 1:1       | 0.356          | 1.197              | 0.426  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 24.0                  | 23.17            | -0.16    | 0                                                    | 0090M      | QPSK    | 1         | 0       | 0 mm  | right      | 1:1       | 1.150          | 1.211              | 1.393  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 23.0                  | 22.22            | -0.19    | 1                                                    | 0090M      | QPSK    | 50        | 0       | 0 mm  | right      | 1:1       | 0.938          | 1.197              | 1.123  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 20.0                  | 19.60            | 0.04     | 0                                                    | 0090M      | QPSK    | 1         | 0       | 0 mm  | back       | 1:1       | 1.380          | 1.096              | 1.512  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 20.0                  | 19.61            | 0.06     | 0                                                    | 0090M      | QPSK    | 50        | 50      | 0 mm  | back       | 1:1       | 1.370          | 1.094              | 1.499  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 20.0                  | 19.60            | 0.21     | 0                                                    | 0090M      | QPSK    | 1         | 0       | 0 mm  | front      | 1:1       | 1.190          | 1.096              | 1.304  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 20.0                  | 19.61            | 0.19     | 0                                                    | 0090M      | QPSK    | 50        | 50      | 0 mm  | front      | 1:1       | 1.190          | 1.094              | 1.302  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 20.0                  | 19.60            | -0.10    | 0                                                    | 0090M      | QPSK    | 1         | 0       | 0 mm  | bottom     | 1:1       | 1.610          | 1.096              | 1.765  |     |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | 20                          | 20.0                  | 19.61            | -0.17    | 0                                                    | 0090M      | QPSK    | 50        | 50      | 0 mm  | bottom     | 1:1       | 1.660          | 1.094              | 1.816  | A95 |
| 2535.00                                                                                           | 21100 | Mid  | LTE Band 7      | 20                          | 20.0                  | 19.47            | -0.13    | 0                                                    | 0090M      | QPSK    | 50        | 0       | 0 mm  | bottom     | 1:1       | 1.420          | 1.130              | 1.605  |     |
| 2560.00                                                                                           | 21350 | High | LTE Band 7      | 20                          | 20.0                  | 19.33            | -0.14    | 0                                                    | 0090M      | QPSK    | 50        | 25      | 0 mm  | bottom     | 1:1       | 1.450          | 1.167              | 1.692  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |       |      |                 |                             |                       |                  |          | Phablet<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |            |         |           |         |       |            |           |                |                    |        |     |

|                                      |                                                                                                                                                                                                                               |                               |                                        |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                            | DUT Type:<br>Portable Handset | Page 234 of 305                        |

**Table 11-72**  
**LTE Band 41 Phablet SAR**

| MEASUREMENT RESULTS                      |                   |           |       |          |             |                 |                             |                       |                  |                        |               |            |         |           |         |        |            |           |                |                    |        |
|------------------------------------------|-------------------|-----------|-------|----------|-------------|-----------------|-----------------------------|-----------------------|------------------|------------------------|---------------|------------|---------|-----------|---------|--------|------------|-----------|----------------|--------------------|--------|
| 1 CC Uplink   2 CC Uplink, Power Class   | Component Carrier | FREQUENCY |       |          | Mode        | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB]               | Serial Number | Modulation | RB Size | RB Offset | Spacing | Side   | Duty Cycle | SAR (10g) | Scaling Factor | Reported SAR (10g) | Plot # |
|                                          |                   | Mhz       | Ch.   | (W/kg)   |             |                 |                             |                       |                  |                        |               |            |         |           |         |        |            | (W/kg)    |                |                    |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2506.00   | 39750 | Low      | LTE Band 41 | 20              | 25.0                        | 24.11                 | 0.18             | 0                      | 0085M         | QPSK       | 1       | 99        | 8 mm    | back   | 1:1.58     | 0.214     | 1.227          | 0.263              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2506.00   | 39750 | Low      | LTE Band 41 | 20              | 24.0                        | 23.23                 | 0.17             | 1                      | 0085M         | QPSK       | 50      | 25        | 8 mm    | back   | 1:1.58     | 0.174     | 1.194          | 0.208              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2506.00   | 39750 | Low      | LTE Band 41 | 20              | 25.0                        | 24.11                 | -0.10            | 0                      | 0085M         | QPSK       | 1       | 99        | 6 mm    | front  | 1:1.58     | 0.264     | 1.227          | 0.324              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2506.00   | 39750 | Low      | LTE Band 41 | 20              | 24.0                        | 23.23                 | -0.01            | 1                      | 0085M         | QPSK       | 50      | 25        | 6 mm    | front  | 1:1.58     | 0.219     | 1.194          | 0.261              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2506.00   | 39750 | Low      | LTE Band 41 | 20              | 25.0                        | 24.11                 | 0.02             | 0                      | 0085M         | QPSK       | 1       | 99        | 12 mm   | bottom | 1:1.58     | 0.217     | 1.227          | 0.266              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2506.00   | 39750 | Low      | LTE Band 41 | 20              | 24.0                        | 23.23                 | 0.00             | 1                      | 0085M         | QPSK       | 50      | 25        | 12 mm   | bottom | 1:1.58     | 0.192     | 1.194          | 0.229              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2506.00   | 39750 | Low      | LTE Band 41 | 20              | 25.0                        | 24.11                 | -0.13            | 0                      | 0085M         | QPSK       | 1       | 99        | 0 mm    | right  | 1:1.58     | 0.526     | 1.227          | 0.645              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2506.00   | 39750 | Low      | LTE Band 41 | 20              | 24.0                        | 23.23                 | -0.11            | 1                      | 0085M         | QPSK       | 50      | 25        | 0 mm    | right  | 1:1.58     | 0.439     | 1.194          | 0.524              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2506.00   | 39750 | Low      | LTE Band 41 | 20              | 23.0                        | 22.41                 | -0.01            | 0                      | 0085M         | QPSK       | 1       | 50        | 0 mm    | back   | 1:1.58     | 1.290     | 1.146          | 1.478              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2549.50   | 40185 | Low-Mid  | LTE Band 41 | 20              | 23.0                        | 22.35                 | -0.01            | 0                      | 0085M         | QPSK       | 1       | 50        | 0 mm    | back   | 1:1.58     | 1.290     | 1.161          | 1.498              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2593.00   | 40620 | Mid      | LTE Band 41 | 20              | 23.0                        | 22.44                 | -0.06            | 0                      | 0085M         | QPSK       | 1       | 50        | 0 mm    | back   | 1:1.58     | 1.360     | 1.138          | 1.548              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2636.50   | 41055 | Mid-High | LTE Band 41 | 20              | 23.0                        | 22.40                 | 0.04             | 0                      | 0085M         | QPSK       | 1       | 50        | 0 mm    | back   | 1:1.58     | 1.370     | 1.148          | 1.573              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2680.00   | 41490 | High     | LTE Band 41 | 20              | 23.0                        | 22.22                 | -0.03            | 0                      | 0085M         | QPSK       | 1       | 50        | 0 mm    | back   | 1:1.58     | 1.370     | 1.197          | 1.640              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2506.00   | 39750 | Low      | LTE Band 41 | 20              | 23.0                        | 22.48                 | 0.02             | 0                      | 0085M         | QPSK       | 50      | 25        | 0 mm    | back   | 1:1.58     | 1.350     | 1.127          | 1.521              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2549.50   | 40185 | Low-Mid  | LTE Band 41 | 20              | 23.0                        | 22.42                 | -0.02            | 0                      | 0085M         | QPSK       | 50      | 25        | 0 mm    | back   | 1:1.58     | 1.320     | 1.143          | 1.509              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2593.00   | 40620 | Mid      | LTE Band 41 | 20              | 23.0                        | 22.51                 | -0.01            | 0                      | 0085M         | QPSK       | 50      | 25        | 0 mm    | back   | 1:1.58     | 1.370     | 1.119          | 1.533              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2636.50   | 41055 | Mid-High | LTE Band 41 | 20              | 23.0                        | 22.41                 | -0.02            | 0                      | 0085M         | QPSK       | 50      | 25        | 0 mm    | back   | 1:1.58     | 1.390     | 1.146          | 1.593              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2680.00   | 41490 | High     | LTE Band 41 | 20              | 23.0                        | 22.35                 | -0.07            | 0                      | 0085M         | QPSK       | 50      | 25        | 0 mm    | back   | 1:1.58     | 1.440     | 1.161          | 1.672              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2506.00   | 39750 | Low      | LTE Band 41 | 20              | 23.0                        | 22.40                 | 0.02             | 0                      | 0085M         | QPSK       | 100     | 0         | 0 mm    | back   | 1:1.58     | 1.320     | 1.148          | 1.515              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2593.00   | 40620 | Mid      | LTE Band 41 | 20              | 23.0                        | 22.44                 | 0.09             | 0                      | 0085M         | QPSK       | 1       | 50        | 0 mm    | front  | 1:1.58     | 1.230     | 1.138          | 1.400              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2593.00   | 40620 | Mid      | LTE Band 41 | 20              | 23.0                        | 22.51                 | 0.08             | 0                      | 0085M         | QPSK       | 50      | 25        | 0 mm    | front  | 1:1.58     | 1.260     | 1.119          | 1.410              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2506.00   | 39750 | Low      | LTE Band 41 | 20              | 23.0                        | 22.41                 | -0.18            | 0                      | 0085M         | QPSK       | 1       | 50        | 0 mm    | bottom | 1:1.58     | 1.850     | 1.146          | 2.120              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2549.50   | 40185 | Low-Mid  | LTE Band 41 | 20              | 23.0                        | 22.35                 | -0.14            | 0                      | 0085M         | QPSK       | 1       | 50        | 0 mm    | bottom | 1:1.58     | 1.940     | 1.161          | 2.252              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2593.00   | 40620 | Mid      | LTE Band 41 | 20              | 23.0                        | 22.44                 | 0.19             | 0                      | 0085M         | QPSK       | 1       | 50        | 0 mm    | bottom | 1:1.58     | 2.000     | 1.138          | 2.276              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2636.50   | 41055 | Mid-High | LTE Band 41 | 20              | 23.0                        | 22.40                 | -0.13            | 0                      | 0085M         | QPSK       | 1       | 50        | 0 mm    | bottom | 1:1.58     | 2.090     | 1.148          | 2.399              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2680.00   | 41490 | High     | LTE Band 41 | 20              | 23.0                        | 22.22                 | -0.15            | 0                      | 0085M         | QPSK       | 1       | 50        | 0 mm    | bottom | 1:1.58     | 2.030     | 1.197          | 2.430              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2506.00   | 39750 | Low      | LTE Band 41 | 20              | 23.0                        | 22.48                 | -0.13            | 0                      | 0085M         | QPSK       | 50      | 25        | 0 mm    | bottom | 1:1.58     | 1.950     | 1.127          | 2.198              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2549.50   | 40185 | Low-Mid  | LTE Band 41 | 20              | 23.0                        | 22.42                 | -0.12            | 0                      | 0085M         | QPSK       | 50      | 25        | 0 mm    | bottom | 1:1.58     | 2.050     | 1.143          | 2.343              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2593.00   | 40620 | Mid      | LTE Band 41 | 20              | 23.0                        | 22.51                 | -0.18            | 0                      | 0085M         | QPSK       | 50      | 25        | 0 mm    | bottom | 1:1.58     | 2.090     | 1.119          | 2.339              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2636.50   | 41055 | Mid-High | LTE Band 41 | 20              | 23.0                        | 22.31                 | -0.19            | 0                      | 0085M         | QPSK       | 50      | 0         | 0 mm    | bottom | 1:1.58     | 2.180     | 1.172          | 2.555              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2636.50   | 41055 | Mid-High | LTE Band 41 | 20              | 23.0                        | 22.41                 | -0.18            | 0                      | 0085M         | QPSK       | 50      | 25        | 0 mm    | bottom | 1:1.58     | 2.180     | 1.146          | 2.498              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2680.00   | 41490 | High     | LTE Band 41 | 20              | 23.0                        | 22.35                 | -0.14            | 0                      | 0085M         | QPSK       | 50      | 25        | 0 mm    | bottom | 1:1.58     | 2.120     | 1.161          | 2.461              |        |
| 1 CC Uplink - Power Class 3              | N/A               | 2506.00   | 39750 | Low      | LTE Band 41 | 20              | 23.0                        | 22.40                 | -0.12            | 0                      | 0085M         | QPSK       | 100     | 0         | 0 mm    | bottom | 1:1.58     | 1.930     | 1.148          | 2.216              |        |
| 1 CC Uplink - Power Class 2              | N/A               | 2636.50   | 41055 | Mid-High | LTE Band 41 | 20              | 24.6                        | 23.97                 | -0.13            | 0                      | 0085M         | QPSK       | 50      | 0         | 0 mm    | bottom | 1:2.31     | 2.150     | 1.156          | 2.485              |        |
| 1 CC Uplink - Power Class 2              | N/A               | 2636.50   | 41055 | Mid-High | LTE Band 41 | 20              | 24.6                        | 24.10                 | -0.18            | 0                      | 0085M         | QPSK       | 50      | 25        | 0 mm    | bottom | 1:2.31     | 2.170     | 1.122          | 2.435              |        |
| 2 CC Uplink - Power Class 3              | PCC               | 2636.50   | 41055 | Mid-High | LTE Band 41 | 20              | 23.0                        | 22.58                 | -0.19            | 0                      | 0085M         | QPSK       | 50      | 0         | 0 mm    | bottom | 1:1.58     | 2.430     | 1.102          | 2.678              |        |
|                                          | SCC               | 2616.70   | 40857 | Mid-High | LTE Band 41 | 20              |                             |                       |                  |                        |               | QPSK       | 50      | 50        |         |        |            |           |                |                    |        |
| 2 CC Uplink - Power Class 2              | PCC               | 2636.50   | 41055 | Mid-High | LTE Band 41 | 20              | 24.6                        | 24.47                 | -0.16            | 0                      | 0085M         | QPSK       | 50      | 0         | 0 mm    | bottom | 1:2.31     | 2.530     | 1.030          | 2.606              | A96    |
|                                          | SCC               | 2616.70   | 40857 | Mid-High | LTE Band 41 | 20              |                             |                       |                  |                        |               | QPSK       | 50      | 50        |         |        |            |           |                |                    |        |
| 2 CC Uplink - Power Class 2              | PCC               | 2636.50   | 41055 | Mid-High | LTE Band 41 | 20              | 24.6                        | 24.47                 | -0.16            | 0                      | 0085M         | QPSK       | 50      | 0         | 0 mm    | bottom | 1:2.31     | 2.470     | 1.030          | 2.544              |        |
|                                          | SCC               | 2616.70   | 40857 | Mid-High | LTE Band 41 | 20              |                             |                       |                  |                        |               | QPSK       | 50      | 50        |         |        |            |           |                |                    |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |                   |           |       |          |             |                 |                             |                       |                  | Phablet                |               |            |         |           |         |        |            |           |                |                    |        |
| Spatial Peak                             |                   |           |       |          |             |                 |                             |                       |                  | 4.0 W/kg (mW/g)        |               |            |         |           |         |        |            |           |                |                    |        |
| Uncontrolled Exposure/General Population |                   |           |       |          |             |                 |                             |                       |                  | averaged over 10 grams |               |            |         |           |         |        |            |           |                |                    |        |

Note: Blue entry represents variability measurement.

|                                      |                                                                                                                                                                                                                                                                                                                                                                              |                               |                                 |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   | <div><b>PCTEST</b><br/><small>Proud to be part of the</small> </div> <div>SAR EVALUATION REPORT</div> <div></div> |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 235 of 305                 |

**Table 11-73**  
**NR Band n66 Phablet SAR**

| MEASUREMENT RESULTS                      |        |        |                   |                 |                             |                       |                  |                        |               |               |                 |         |           |         |        |            |           |                |                    |        |
|------------------------------------------|--------|--------|-------------------|-----------------|-----------------------------|-----------------------|------------------|------------------------|---------------|---------------|-----------------|---------|-----------|---------|--------|------------|-----------|----------------|--------------------|--------|
| FREQUENCY                                |        |        | Mode              | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB]               | Antenna State | Serial Number | Modulation      | RB Size | RB Offset | Spacing | Side   | Duty Cycle | SAR (10g) | Scaling Factor | Reported SAR (10g) | Plot # |
| MHz                                      | Ch.    | (W/kg) |                   |                 |                             |                       |                  |                        |               |               |                 |         |           |         |        |            | (W/kg)    |                |                    |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | 24.5                        | 23.93                 | -0.12            | 0                      | 2             | 0066M         | DFT-S-OFDM QPSK | 1       | 53        | 8 mm    | back   | 1:1        | 1.280     | 1.140          | 1.459              |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | 24.5                        | 23.67                 | 0.02             | 0                      | 2             | 0066M         | DFT-S-OFDM QPSK | 50      | 28        | 8 mm    | back   | 1:1        | 1.220     | 1.211          | 1.477              |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | 24.5                        | 23.93                 | -0.06            | 0                      | 5             | 0066M         | DFT-S-OFDM QPSK | 1       | 53        | 6 mm    | front  | 1:1        | 1.400     | 1.140          | 1.596              |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | 24.5                        | 23.67                 | -0.12            | 0                      | 5             | 0066M         | DFT-S-OFDM QPSK | 50      | 28        | 6 mm    | front  | 1:1        | 1.380     | 1.211          | 1.671              |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | 24.5                        | 23.93                 | -0.01            | 0                      | 20            | 0066M         | DFT-S-OFDM QPSK | 1       | 53        | 12 mm   | bottom | 1:1        | 0.946     | 1.140          | 1.078              |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | 24.5                        | 23.67                 | -0.04            | 0                      | 20            | 0066M         | DFT-S-OFDM QPSK | 50      | 28        | 12 mm   | bottom | 1:1        | 0.963     | 1.211          | 1.166              |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | 24.5                        | 23.93                 | 0.17             | 0                      | 4             | 0066M         | DFT-S-OFDM QPSK | 1       | 53        | 0 mm    | right  | 1:1        | 0.509     | 1.140          | 0.580              |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | 24.5                        | 23.67                 | -0.01            | 0                      | 4             | 0066M         | DFT-S-OFDM QPSK | 50      | 28        | 0 mm    | right  | 1:1        | 0.491     | 1.211          | 0.595              |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | 24.5                        | 23.93                 | 0.04             | 0                      | 4             | 0066M         | DFT-S-OFDM QPSK | 1       | 53        | 0 mm    | left   | 1:1        | 0.311     | 1.140          | 0.355              |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | 24.5                        | 23.67                 | -0.04            | 0                      | 4             | 0066M         | DFT-S-OFDM QPSK | 50      | 28        | 0 mm    | left   | 1:1        | 0.305     | 1.211          | 0.369              |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | 20.5                        | 19.98                 | -0.19            | 0                      | 0             | 0066M         | DFT-S-OFDM QPSK | 1       | 53        | 0 mm    | back   | 1:1        | 2.200     | 1.127          | 2.479              |        |
| 1745.00                                  | 349000 | Mid    | NR Band n66 (AWS) | 20              | 20.5                        | 19.72                 | -0.03            | 0                      | 108           | 0066M         | DFT-S-OFDM QPSK | 1       | 1         | 0 mm    | back   | 1:1        | 2.150     | 1.197          | 2.574              |        |
| 1770.00                                  | 354000 | High   | NR Band n66 (AWS) | 20              | 20.5                        | 20.03                 | -0.07            | 0                      | 108           | 0066M         | DFT-S-OFDM QPSK | 1       | 53        | 0 mm    | back   | 1:1        | 2.450     | 1.114          | 2.729              | A97    |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | 20.5                        | 19.85                 | -0.11            | 0                      | 0             | 0066M         | DFT-S-OFDM QPSK | 50      | 0         | 0 mm    | back   | 1:1        | 2.130     | 1.161          | 2.473              |        |
| 1745.00                                  | 349000 | Mid    | NR Band n66 (AWS) | 20              | 20.5                        | 19.64                 | -0.11            | 0                      | 108           | 0066M         | DFT-S-OFDM QPSK | 50      | 0         | 0 mm    | back   | 1:1        | 2.150     | 1.219          | 2.621              |        |
| 1770.00                                  | 354000 | High   | NR Band n66 (AWS) | 20              | 20.5                        | 19.96                 | -0.07            | 0                      | 108           | 0066M         | DFT-S-OFDM QPSK | 50      | 0         | 0 mm    | back   | 1:1        | 2.160     | 1.132          | 2.445              |        |
| 1770.00                                  | 354000 | High   | NR Band n66 (AWS) | 20              | 20.5                        | 19.80                 | -0.04            | 0                      | 108           | 0066M         | CP-OFDM QPSK    | 1       | 1         | 0 mm    | back   | 1:1        | 2.200     | 1.175          | 2.585              |        |
| 1770.00                                  | 354000 | High   | NR Band n66 (AWS) | 20              | 20.5                        | 19.87                 | -0.07            | 0                      | 108           | 0066M         | DFT-S-OFDM QPSK | 100     | 0         | 0 mm    | back   | 1:1        | 2.160     | 1.156          | 2.497              |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | 20.5                        | 19.98                 | -0.14            | 0                      | 0             | 0066M         | DFT-S-OFDM QPSK | 1       | 53        | 0 mm    | front  | 1:1        | 1.840     | 1.127          | 2.074              |        |
| 1745.00                                  | 349000 | Mid    | NR Band n66 (AWS) | 20              | 20.5                        | 19.72                 | -0.05            | 0                      | 0             | 0066M         | DFT-S-OFDM QPSK | 1       | 1         | 0 mm    | front  | 1:1        | 1.820     | 1.197          | 2.179              |        |
| 1770.00                                  | 354000 | High   | NR Band n66 (AWS) | 20              | 20.5                        | 20.03                 | -0.07            | 0                      | 0             | 0066M         | DFT-S-OFDM QPSK | 1       | 53        | 0 mm    | front  | 1:1        | 1.880     | 1.114          | 2.094              |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | 20.5                        | 19.85                 | 0.00             | 0                      | 0             | 0066M         | DFT-S-OFDM QPSK | 50      | 0         | 0 mm    | front  | 1:1        | 1.740     | 1.161          | 2.020              |        |
| 1745.00                                  | 349000 | Mid    | NR Band n66 (AWS) | 20              | 20.5                        | 19.64                 | -0.09            | 0                      | 0             | 0066M         | DFT-S-OFDM QPSK | 50      | 0         | 0 mm    | front  | 1:1        | 1.820     | 1.219          | 2.219              |        |
| 1770.00                                  | 354000 | High   | NR Band n66 (AWS) | 20              | 20.5                        | 19.96                 | -0.08            | 0                      | 0             | 0066M         | DFT-S-OFDM QPSK | 50      | 0         | 0 mm    | front  | 1:1        | 1.810     | 1.132          | 2.049              |        |
| 1770.00                                  | 354000 | High   | NR Band n66 (AWS) | 20              | 20.5                        | 19.87                 | -0.10            | 0                      | 0             | 0066M         | DFT-S-OFDM QPSK | 100     | 0         | 0 mm    | front  | 1:1        | 1.810     | 1.156          | 2.092              |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | 20.5                        | 19.98                 | -0.09            | 0                      | 7             | 0066M         | DFT-S-OFDM QPSK | 1       | 53        | 0 mm    | bottom | 1:1        | 1.910     | 1.127          | 2.153              |        |
| 1745.00                                  | 349000 | Mid    | NR Band n66 (AWS) | 20              | 20.5                        | 19.72                 | -0.08            | 0                      | 18            | 0066M         | DFT-S-OFDM QPSK | 1       | 1         | 0 mm    | bottom | 1:1        | 1.930     | 1.197          | 2.310              |        |
| 1770.00                                  | 354000 | High   | NR Band n66 (AWS) | 20              | 20.5                        | 20.03                 | -0.07            | 0                      | 18            | 0066M         | DFT-S-OFDM QPSK | 1       | 53        | 0 mm    | bottom | 1:1        | 1.910     | 1.114          | 2.128              |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | 20.5                        | 19.85                 | -0.03            | 0                      | 7             | 0066M         | DFT-S-OFDM QPSK | 50      | 0         | 0 mm    | bottom | 1:1        | 1.880     | 1.161          | 2.183              |        |
| 1745.00                                  | 349000 | Mid    | NR Band n66 (AWS) | 20              | 20.5                        | 19.64                 | -0.11            | 0                      | 18            | 0066M         | DFT-S-OFDM QPSK | 50      | 0         | 0 mm    | bottom | 1:1        | 1.900     | 1.219          | 2.316              |        |
| 1770.00                                  | 354000 | High   | NR Band n66 (AWS) | 20              | 20.5                        | 19.96                 | -0.04            | 0                      | 18            | 0066M         | DFT-S-OFDM QPSK | 50      | 0         | 0 mm    | bottom | 1:1        | 1.850     | 1.132          | 2.094              |        |
| 1770.00                                  | 354000 | High   | NR Band n66 (AWS) | 20              | 20.5                        | 19.87                 | -0.20            | 0                      | 7             | 0066M         | DFT-S-OFDM QPSK | 100     | 0         | 0 mm    | bottom | 1:1        | 2.030     | 1.156          | 2.347              |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |        |        |                   |                 |                             |                       |                  | Phablet                |               |               |                 |         |           |         |        |            |           |                |                    | A97    |
| Spatial Peak                             |        |        |                   |                 |                             |                       |                  | 4.0 W/kg (mW/g)        |               |               |                 |         |           |         |        |            |           |                |                    |        |
| Uncontrolled Exposure/General Population |        |        |                   |                 |                             |                       |                  | averaged over 10 grams |               |               |                 |         |           |         |        |            |           |                |                    |        |

|                                      |                                                                                     |                               |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                  | DUT Type:<br>Portable Handset |                                                                                       | Page 236 of 305                 |

**Table 11-74**  
**NR Band n25 Phablet SAR**

| MEASUREMENT RESULTS                      |        |      |                   |                             |                       |                  |          |                        |               |            |                 |           |         |       |            |           |                |                    |        |     |
|------------------------------------------|--------|------|-------------------|-----------------------------|-----------------------|------------------|----------|------------------------|---------------|------------|-----------------|-----------|---------|-------|------------|-----------|----------------|--------------------|--------|-----|
| FREQUENCY                                |        | Mode | Bandwidth [MHz]   | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Antenna State          | Serial Number | Modulation | RB Size         | RB Offset | Spacing | Side  | Duty Cycle | SAR (10g) | Scaling Factor | Reported SAR (10g) | Plot # |     |
| MHz                                      | Ch.    |      |                   |                             |                       |                  |          |                        |               |            |                 |           |         |       |            | (W/kg)    |                | (W/kg)             |        |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 24.5                  | 23.91            | -0.02    | 0                      | 109           | 0065M      | DFT-S-OFDM QPSK | 1         | 53      | 8 mm  | back       | 1:1       | 1.070          | 1.146              | 1.226  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 24.5                  | 23.91            | 0.01     | 0                      | 109           | 0065M      | DFT-S-OFDM QPSK | 50        | 28      | 8 mm  | back       | 1:1       | 1.080          | 1.146              | 1.238  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 24.5                  | 23.91            | -0.01    | 0                      | 108           | 0065M      | DFT-S-OFDM QPSK | 1         | 53      | 6 mm  | front      | 1:1       | 1.220          | 1.146              | 1.398  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 24.5                  | 23.91            | 0.04     | 0                      | 108           | 0065M      | DFT-S-OFDM QPSK | 50        | 28      | 6 mm  | front      | 1:1       | 1.180          | 1.146              | 1.352  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 24.5                  | 23.91            | -0.11    | 0                      | 108           | 0065M      | DFT-S-OFDM QPSK | 1         | 53      | 12 mm | bottom     | 1:1       | 1.450          | 1.146              | 1.662  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 24.5                  | 23.91            | -0.02    | 0                      | 108           | 0065M      | DFT-S-OFDM QPSK | 50        | 28      | 12 mm | bottom     | 1:1       | 1.370          | 1.146              | 1.570  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 24.5                  | 23.91            | -0.19    | 0                      | 109           | 0065M      | DFT-S-OFDM QPSK | 1         | 53      | 0 mm  | right      | 1:1       | 0.582          | 1.146              | 0.667  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 24.5                  | 23.91            | 0.10     | 0                      | 109           | 0065M      | DFT-S-OFDM QPSK | 50        | 28      | 0 mm  | right      | 1:1       | 0.545          | 1.146              | 0.625  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 24.5                  | 23.91            | -0.03    | 0                      | 26            | 0065M      | DFT-S-OFDM QPSK | 1         | 53      | 0 mm  | left       | 1:1       | 0.350          | 1.146              | 0.401  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 24.5                  | 23.91            | -0.03    | 0                      | 26            | 0065M      | DFT-S-OFDM QPSK | 50        | 28      | 0 mm  | left       | 1:1       | 0.323          | 1.146              | 0.370  |     |
| 1860.00                                  | 372000 | Low  | NR Band n25 (PCS) | 20                          | 20.5                  | 20.04            | 0.06     | 0                      | 109           | 0065M      | DFT-S-OFDM QPSK | 1         | 53      | 0 mm  | back       | 1:1       | 1.990          | 1.112              | 2.213  |     |
| 1882.50                                  | 376500 | Mid  | NR Band n25 (PCS) | 20                          | 20.5                  | 19.86            | 0.07     | 0                      | 109           | 0065M      | DFT-S-OFDM QPSK | 1         | 104     | 0 mm  | back       | 1:1       | 1.950          | 1.159              | 2.260  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 20.5                  | 20.31            | 0.01     | 0                      | 109           | 0065M      | DFT-S-OFDM QPSK | 1         | 53      | 0 mm  | back       | 1:1       | 2.120          | 1.045              | 2.215  |     |
| 1860.00                                  | 372000 | Low  | NR Band n25 (PCS) | 20                          | 20.5                  | 19.97            | 0.08     | 0                      | 109           | 0065M      | DFT-S-OFDM QPSK | 50        | 0       | 0 mm  | back       | 1:1       | 2.020          | 1.130              | 2.283  |     |
| 1882.50                                  | 376500 | Mid  | NR Band n25 (PCS) | 20                          | 20.5                  | 19.81            | 0.01     | 0                      | 109           | 0065M      | DFT-S-OFDM QPSK | 50        | 56      | 0 mm  | back       | 1:1       | 1.990          | 1.172              | 2.332  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 20.5                  | 20.17            | -0.01    | 0                      | 109           | 0065M      | DFT-S-OFDM QPSK | 50        | 28      | 0 mm  | back       | 1:1       | 2.130          | 1.079              | 2.298  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 20.5                  | 20.13            | -0.08    | 0                      | 109           | 0065M      | DFT-S-OFDM QPSK | 100       | 0       | 0 mm  | back       | 1:1       | 2.150          | 1.089              | 2.341  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 20.5                  | 20.31            | 0.02     | 0                      | 109           | 0065M      | DFT-S-OFDM QPSK | 1         | 53      | 0 mm  | front      | 1:1       | 1.750          | 1.045              | 1.829  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 20.5                  | 20.17            | -0.02    | 0                      | 109           | 0065M      | DFT-S-OFDM QPSK | 50        | 28      | 0 mm  | front      | 1:1       | 1.750          | 1.079              | 1.888  |     |
| 1860.00                                  | 372000 | Low  | NR Band n25 (PCS) | 20                          | 20.5                  | 20.04            | -0.15    | 0                      | 108           | 0065M      | DFT-S-OFDM QPSK | 1         | 53      | 0 mm  | bottom     | 1:1       | 1.920          | 1.112              | 2.135  |     |
| 1882.50                                  | 376500 | Mid  | NR Band n25 (PCS) | 20                          | 20.5                  | 19.86            | -0.18    | 0                      | 108           | 0065M      | DFT-S-OFDM QPSK | 1         | 104     | 0 mm  | bottom     | 1:1       | 1.940          | 1.159              | 2.248  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 20.5                  | 20.31            | -0.14    | 0                      | 18            | 0065M      | DFT-S-OFDM QPSK | 1         | 53      | 0 mm  | bottom     | 1:1       | 2.180          | 1.045              | 2.278  |     |
| 1860.00                                  | 372000 | Low  | NR Band n25 (PCS) | 20                          | 20.5                  | 19.97            | -0.15    | 0                      | 108           | 0065M      | DFT-S-OFDM QPSK | 50        | 0       | 0 mm  | bottom     | 1:1       | 1.990          | 1.130              | 2.249  |     |
| 1882.50                                  | 376500 | Mid  | NR Band n25 (PCS) | 20                          | 20.5                  | 19.81            | -0.12    | 0                      | 108           | 0065M      | DFT-S-OFDM QPSK | 50        | 56      | 0 mm  | bottom     | 1:1       | 1.830          | 1.172              | 2.145  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 20.5                  | 20.17            | -0.20    | 0                      | 18            | 0065M      | DFT-S-OFDM QPSK | 50        | 28      | 0 mm  | bottom     | 1:1       | 2.160          | 1.079              | 2.331  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 20.5                  | 20.10            | -0.19    | 0                      | 18            | 0065M      | CP-OFDM QPSK    | 1         | 1       | 0 mm  | bottom     | 1:1       | 2.110          | 1.096              | 2.313  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                          | 20.5                  | 20.13            | -0.01    | 0                      | 18            | 0065M      | DFT-S-OFDM QPSK | 100       | 0       | 0 mm  | bottom     | 1:1       | 2.270          | 1.089              | 2.472  | A98 |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |        |      |                   |                             |                       |                  |          | Phablet                |               |            |                 |           |         |       |            |           |                |                    |        |     |
| Spatial Peak                             |        |      |                   |                             |                       |                  |          | 4.0 W/kg (mW/g)        |               |            |                 |           |         |       |            |           |                |                    |        |     |
| Uncontrolled Exposure/General Population |        |      |                   |                             |                       |                  |          | averaged over 10 grams |               |            |                 |           |         |       |            |           |                |                    |        |     |

|                                      |                                                                                                                                              |                               |                                                                                       |                                 |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of Vcom</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01_A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 237 of 305                 |

**Table 11-75**  
**WLAN SISO Phablet SAR**

| MEASUREMENT RESULTS                                                                               |     |         |         |                 |                             |                       |                  |                                                      |                 |                      |                  |       |                |                       |           |                        |                             |                    |        |
|---------------------------------------------------------------------------------------------------|-----|---------|---------|-----------------|-----------------------------|-----------------------|------------------|------------------------------------------------------|-----------------|----------------------|------------------|-------|----------------|-----------------------|-----------|------------------------|-----------------------------|--------------------|--------|
| FREQUENCY                                                                                         |     | Mode    | Service | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Spacing                                              | Antenna Config. | Device Serial Number | Data Rate (Mbps) | Side  | Duty Cycle (%) | Peak SAR of Area Scan | SAR (10g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (10g) | Plot # |
| MHz                                                                                               | Ch. |         |         |                 |                             |                       |                  |                                                      |                 |                      |                  |       |                | W/kg                  | (W/kg)    |                        |                             | (W/kg)             |        |
| 5300                                                                                              | 60  | 802.11a | OFDM    | 20              | 18.5                        | 18.18                 | 0.00             | 0 mm                                                 | 1               | 0697M                | 6                | back  | 99.0           | 11.275                | 1.370     | 1.076                  | 1.010                       | 1.489              |        |
| 5300                                                                                              | 60  | 802.11a | OFDM    | 20              | 18.5                        | 18.18                 | -0.17            | 0 mm                                                 | 1               | 0697M                | 6                | front | 99.0           | 0.550                 | 0.085     | 1.076                  | 1.010                       | 0.092              |        |
| 5300                                                                                              | 60  | 802.11a | OFDM    | 20              | 18.5                        | 18.18                 | -0.15            | 0 mm                                                 | 1               | 0697M                | 6                | top   | 99.0           | 0.467                 | -         | 1.076                  | 1.010                       | -                  |        |
| 5300                                                                                              | 60  | 802.11a | OFDM    | 20              | 18.5                        | 18.18                 | -0.05            | 0 mm                                                 | 1               | 0697M                | 6                | left  | 99.0           | 5.580                 | 0.474     | 1.076                  | 1.010                       | 0.515              |        |
| 5260                                                                                              | 52  | 802.11a | OFDM    | 20              | 18.5                        | 18.30                 | 0.13             | 0 mm                                                 | 2               | 0697M                | 6                | back  | 98.9           | 20.485                | 1.610     | 1.047                  | 1.011                       | 1.704              |        |
| 5260                                                                                              | 52  | 802.11a | OFDM    | 20              | 18.5                        | 18.30                 | -0.05            | 0 mm                                                 | 2               | 0697M                | 6                | front | 98.9           | 0.111                 | 0.009     | 1.047                  | 1.011                       | 0.010              |        |
| 5260                                                                                              | 52  | 802.11a | OFDM    | 20              | 18.5                        | 18.30                 | 0.08             | 0 mm                                                 | 2               | 0697M                | 6                | top   | 98.9           | 0.317                 | -         | 1.047                  | 1.011                       | -                  |        |
| 5260                                                                                              | 52  | 802.11a | OFDM    | 20              | 18.5                        | 18.30                 | 0.10             | 0 mm                                                 | 2               | 0697M                | 6                | left  | 98.9           | 0.697                 | 0.099     | 1.047                  | 1.011                       | 0.105              |        |
| 5600                                                                                              | 120 | 802.11a | OFDM    | 20              | 18.5                        | 18.28                 | -0.14            | 0 mm                                                 | 1               | 0697M                | 6                | back  | 99.0           | 8.492                 | 0.863     | 1.052                  | 1.010                       | 0.917              |        |
| 5600                                                                                              | 120 | 802.11a | OFDM    | 20              | 18.5                        | 18.28                 | 0.00             | 0 mm                                                 | 1               | 0697M                | 6                | front | 99.0           | 0.718                 | 0.089     | 1.052                  | 1.010                       | 0.095              |        |
| 5600                                                                                              | 120 | 802.11a | OFDM    | 20              | 18.5                        | 18.28                 | 0.01             | 0 mm                                                 | 1               | 0697M                | 6                | top   | 99.0           | 0.450                 | -         | 1.052                  | 1.010                       | -                  |        |
| 5600                                                                                              | 120 | 802.11a | OFDM    | 20              | 18.5                        | 18.28                 | -0.10            | 0 mm                                                 | 1               | 0697M                | 6                | left  | 99.0           | 4.195                 | 0.348     | 1.052                  | 1.010                       | 0.370              |        |
| 5500                                                                                              | 100 | 802.11a | OFDM    | 20              | 18.5                        | 17.93                 | -0.10            | 0 mm                                                 | 2               | 0697M                | 6                | back  | 98.9           | 9.033                 | 1.790     | 1.140                  | 1.011                       | 2.063              |        |
| 5620                                                                                              | 124 | 802.11a | OFDM    | 20              | 18.5                        | 18.19                 | -0.09            | 0 mm                                                 | 2               | 0697M                | 6                | back  | 98.9           | 14.057                | 2.020     | 1.074                  | 1.011                       | 2.193              |        |
| 5720                                                                                              | 144 | 802.11a | OFDM    | 20              | 18.5                        | 18.42                 | -0.13            | 0 mm                                                 | 2               | 0697M                | 6                | back  | 98.9           | 10.712                | 1.820     | 1.019                  | 1.011                       | 1.875              |        |
| 5720                                                                                              | 144 | 802.11a | OFDM    | 20              | 18.5                        | 18.42                 | 0.01             | 0 mm                                                 | 2               | 0697M                | 6                | front | 98.9           | 0.361                 | 0.053     | 1.019                  | 1.011                       | 0.055              |        |
| 5720                                                                                              | 144 | 802.11a | OFDM    | 20              | 18.5                        | 18.42                 | 0.10             | 0 mm                                                 | 2               | 0697M                | 6                | top   | 98.9           | 0.834                 | -         | 1.019                  | 1.011                       | -                  |        |
| 5720                                                                                              | 144 | 802.11a | OFDM    | 20              | 18.5                        | 18.42                 | 0.11             | 0 mm                                                 | 2               | 0697M                | 6                | left  | 98.9           | 3.519                 | 0.387     | 1.019                  | 1.011                       | 0.399              |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |     |         |         |                 |                             |                       |                  | Phablet<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |                 |                      |                  |       |                |                       |           |                        |                             |                    |        |

**Table 11-76**  
**WLAN MIMO Phablet SAR**

| MEASUREMENT RESULTS                      |     |         |         |                 |                                     |                               |                                     |                               |                  |                        |                 |                      |                  |       |                |                       |           |                        |                             |                    |        |
|------------------------------------------|-----|---------|---------|-----------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|------------------|------------------------|-----------------|----------------------|------------------|-------|----------------|-----------------------|-----------|------------------------|-----------------------------|--------------------|--------|
| FREQUENCY                                |     | Mode    | Service | Bandwidth [MHz] | Maximum Allowed Power (Ant 1) [dBm] | Conducted Power (Ant 1) [dBm] | Maximum Allowed Power (Ant 2) [dBm] | Conducted Power (Ant 2) [dBm] | Power Drift [dB] | Spacing                | Antenna Config. | Device Serial Number | Data Rate (Mbps) | Side  | Duty Cycle (%) | Peak SAR of Area Scan | SAR (10g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (10g) | Plot # |
| MHz                                      | Ch. |         |         |                 |                                     |                               |                                     |                               |                  |                        |                 |                      |                  |       |                | W/kg                  | (W/kg)    |                        |                             | (W/kg)             |        |
| 5260                                     | 52  | 802.11n | OFDM    | 20              | 18.5                                | 18.24                         | 18.5                                | 18.31                         | -0.18            | 0 mm                   | MIMO            | 0697M                | 13               | back  | 97.6           | 25.538                | 2.450     | 1.062                  | 1.025                       | 2.667              |        |
| 5280                                     | 56  | 802.11n | OFDM    | 20              | 18.5                                | 18.25                         | 18.5                                | 18.20                         | -0.08            | 0 mm                   | MIMO            | 0697M                | 13               | back  | 97.6           | 24.067                | 2.340     | 1.072                  | 1.025                       | 2.571              |        |
| 5300                                     | 60  | 802.11n | OFDM    | 20              | 18.5                                | 18.30                         | 18.5                                | 18.25                         | -0.10            | 0 mm                   | MIMO            | 0697M                | 13               | back  | 97.6           | 24.776                | 2.520     | 1.059                  | 1.025                       | 2.735              | A99    |
| 5300                                     | 60  | 802.11n | OFDM    | 20              | 18.5                                | 18.30                         | 18.5                                | 18.25                         | 0.00             | 0 mm                   | MIMO            | 0697M                | 13               | front | 97.6           | 0.851                 | 0.106     | 1.059                  | 1.025                       | 0.115              |        |
| 5300                                     | 60  | 802.11n | OFDM    | 20              | 18.5                                | 18.30                         | 18.5                                | 18.25                         | 0.19             | 0 mm                   | MIMO            | 0697M                | 13               | top   | 97.6           | 0.655                 | -         | 1.059                  | 1.025                       | -                  |        |
| 5300                                     | 60  | 802.11n | OFDM    | 20              | 18.5                                | 18.30                         | 18.5                                | 18.25                         | 0.00             | 0 mm                   | MIMO            | 0697M                | 13               | left  | 97.6           | 6.415                 | 0.544     | 1.059                  | 1.025                       | 0.590              |        |
| 5500                                     | 100 | 802.11n | OFDM    | 20              | 18.5                                | 17.90                         | 18.5                                | 18.10                         | -0.12            | 0 mm                   | MIMO            | 0697M                | 13               | back  | 97.6           | 26.624                | 2.350     | 1.148                  | 1.025                       | 2.765              |        |
| 5620                                     | 124 | 802.11n | OFDM    | 20              | 18.5                                | 18.26                         | 18.5                                | 18.16                         | -0.18            | 0 mm                   | MIMO            | 0697M                | 13               | back  | 97.6           | 25.242                | 2.450     | 1.081                  | 1.025                       | 2.715              |        |
| 5720                                     | 144 | 802.11n | OFDM    | 20              | 18.5                                | 18.20                         | 18.5                                | 18.32                         | -0.14            | 0 mm                   | MIMO            | 0697M                | 13               | back  | 97.6           | 18.226                | 2.420     | 1.072                  | 1.025                       | 2.659              |        |
| 5720                                     | 144 | 802.11n | OFDM    | 20              | 18.5                                | 18.20                         | 18.5                                | 18.32                         | 0.05             | 0 mm                   | MIMO            | 0697M                | 13               | front | 97.6           | 1.413                 | 0.141     | 1.072                  | 1.025                       | 0.155              |        |
| 5720                                     | 144 | 802.11n | OFDM    | 20              | 18.5                                | 18.20                         | 18.5                                | 18.32                         | 0.10             | 0 mm                   | MIMO            | 0697M                | 13               | top   | 97.6           | 1.288                 | -         | 1.072                  | 1.025                       | -                  |        |
| 5720                                     | 144 | 802.11n | OFDM    | 20              | 18.5                                | 18.20                         | 18.5                                | 18.32                         | -0.18            | 0 mm                   | MIMO            | 0697M                | 13               | left  | 97.6           | 6.824                 | 0.649     | 1.072                  | 1.025                       | 0.713              |        |
| 5300                                     | 60  | 802.11n | OFDM    | 20              | 18.5                                | 18.30                         | 18.5                                | 18.25                         | -0.14            | 0 mm                   | MIMO            | 0697M                | 13               | back  | 97.6           | 13.393                | 2.360     | 1.059                  | 1.025                       | 2.562              |        |
| 5620                                     | 124 | 802.11n | OFDM    | 20              | 18.5                                | 18.26                         | 18.5                                | 18.16                         | -0.11            | 0 mm                   | MIMO            | 0697M                | 13               | back  | 97.6           | 16.844                | 2.260     | 1.081                  | 1.025                       | 2.504              |        |
| 5720                                     | 144 | 802.11n | OFDM    | 20              | 18.5                                | 18.20                         | 18.5                                | 18.32                         | 0.16             | 0 mm                   | MIMO            | 0697M                | 13               | back  | 97.6           | 17.782                | 2.420     | 1.072                  | 1.025                       | 2.659              |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |     |         |         |                 |                                     |                               |                                     |                               |                  |                        |                 |                      |                  |       |                |                       |           |                        |                             |                    |        |
| Spatial Peak                             |     |         |         |                 |                                     |                               |                                     |                               |                  | Phablet                |                 |                      |                  |       |                |                       |           |                        |                             |                    |        |
| Uncontrolled Exposure/General Population |     |         |         |                 |                                     |                               |                                     |                               |                  | 4.0 W/kg (mW/g)        |                 |                      |                  |       |                |                       |           |                        |                             |                    |        |
|                                          |     |         |         |                 |                                     |                               |                                     |                               |                  | averaged over 10 grams |                 |                      |                  |       |                |                       |           |                        |                             |                    |        |

Note: To achieve the 21.5 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 18.5 dBm. Blue entries represent variability measurements.

|                                      |                                                                                                                                                                                                                 |                               |                                        |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                   | <br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                              | DUT Type:<br>Portable Handset | Page 238 of 305                        |

**Table 11-77**  
**WLAN SISO Phablet SAR During Conditions with 5G NR**

| MEASUREMENT RESULTS                                                                               |     |          |         |                 |                             |                       |                  |                                                      |                 |                      |                  |       |                |                       |           |                        |                             |                    |        |
|---------------------------------------------------------------------------------------------------|-----|----------|---------|-----------------|-----------------------------|-----------------------|------------------|------------------------------------------------------|-----------------|----------------------|------------------|-------|----------------|-----------------------|-----------|------------------------|-----------------------------|--------------------|--------|
| FREQUENCY                                                                                         |     | Mode     | Service | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Spacing                                              | Antenna Config. | Device Serial Number | Data Rate (Mbps) | Side  | Duty Cycle (%) | Peak SAR of Area Scan | SAR (10g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (10g) | Plot # |
| MHz                                                                                               | Ch. |          |         |                 |                             |                       |                  |                                                      |                 |                      |                  |       |                | W/kg                  | (W/kg)    |                        |                             | (W/kg)             |        |
| 5290                                                                                              | 58  | 802.11ac | OFDM    | 80              | 13.0                        | 12.97                 | 0.00             | 0 mm                                                 | 1               | 0697M                | 29.3             | back  | 93.9           | 2.925                 | 0.363     | 1.007                  | 1.065                       | 0.389              |        |
| 5290                                                                                              | 58  | 802.11ac | OFDM    | 80              | 13.0                        | 12.97                 | 0.02             | 0 mm                                                 | 1               | 0697M                | 29.3             | front | 93.9           | 0.140                 | 0.025     | 1.007                  | 1.065                       | 0.027              |        |
| 5290                                                                                              | 58  | 802.11ac | OFDM    | 80              | 13.0                        | 12.97                 | 0.19             | 0 mm                                                 | 1               | 0697M                | 29.3             | top   | 93.9           | 0.129                 | -         | 1.007                  | 1.065                       | -                  |        |
| 5290                                                                                              | 58  | 802.11ac | OFDM    | 80              | 13.0                        | 12.97                 | 0.00             | 0 mm                                                 | 1               | 0697M                | 29.3             | left  | 93.9           | 1.432                 | -         | 1.007                  | 1.065                       | -                  |        |
| 5290                                                                                              | 58  | 802.11ac | OFDM    | 80              | 13.0                        | 12.83                 | 0.11             | 0 mm                                                 | 2               | 0697M                | 29.3             | back  | 94.8           | 3.261                 | 0.318     | 1.040                  | 1.055                       | 0.349              |        |
| 5290                                                                                              | 58  | 802.11ac | OFDM    | 80              | 13.0                        | 12.83                 | 0.00             | 0 mm                                                 | 2               | 0697M                | 29.3             | front | 94.8           | 0.029                 | 0.001     | 1.040                  | 1.055                       | 0.001              |        |
| 5290                                                                                              | 58  | 802.11ac | OFDM    | 80              | 13.0                        | 12.83                 | 0.00             | 0 mm                                                 | 2               | 0697M                | 29.3             | top   | 94.8           | 0.041                 | -         | 1.040                  | 1.055                       | -                  |        |
| 5290                                                                                              | 58  | 802.11ac | OFDM    | 80              | 13.0                        | 12.83                 | 0.00             | 0 mm                                                 | 2               | 0697M                | 29.3             | left  | 94.8           | 0.164                 | -         | 1.040                  | 1.055                       | -                  |        |
| 5690                                                                                              | 138 | 802.11ac | OFDM    | 80              | 13.0                        | 12.61                 | 0.12             | 0 mm                                                 | 1               | 0697M                | 29.3             | back  | 93.9           | 2.185                 | 0.182     | 1.094                  | 1.065                       | 0.212              |        |
| 5690                                                                                              | 138 | 802.11ac | OFDM    | 80              | 13.0                        | 12.61                 | 0.00             | 0 mm                                                 | 1               | 0697M                | 29.3             | front | 93.9           | 0.168                 | 0.020     | 1.094                  | 1.065                       | 0.023              |        |
| 5690                                                                                              | 138 | 802.11ac | OFDM    | 80              | 13.0                        | 12.61                 | 0.08             | 0 mm                                                 | 1               | 0697M                | 29.3             | top   | 93.9           | 0.144                 | -         | 1.094                  | 1.065                       | -                  |        |
| 5690                                                                                              | 138 | 802.11ac | OFDM    | 80              | 13.0                        | 12.61                 | 0.00             | 0 mm                                                 | 1               | 0697M                | 29.3             | left  | 93.9           | 0.748                 | -         | 1.094                  | 1.065                       | -                  |        |
| 5690                                                                                              | 138 | 802.11ac | OFDM    | 80              | 13.0                        | 12.62                 | -0.15            | 0 mm                                                 | 2               | 0697M                | 29.3             | back  | 94.8           | 3.950                 | 0.478     | 1.091                  | 1.055                       | 0.550              |        |
| 5690                                                                                              | 138 | 802.11ac | OFDM    | 80              | 13.0                        | 12.62                 | 0.00             | 0 mm                                                 | 2               | 0697M                | 29.3             | front | 94.8           | 0.137                 | 0.013     | 1.091                  | 1.055                       | 0.015              |        |
| 5690                                                                                              | 138 | 802.11ac | OFDM    | 80              | 13.0                        | 12.62                 | 0.18             | 0 mm                                                 | 2               | 0697M                | 29.3             | top   | 94.8           | 0.297                 | -         | 1.091                  | 1.055                       | -                  |        |
| 5690                                                                                              | 138 | 802.11ac | OFDM    | 80              | 13.0                        | 12.62                 | -0.16            | 0 mm                                                 | 2               | 0697M                | 29.3             | left  | 94.8           | 1.015                 | -         | 1.091                  | 1.055                       | -                  |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak<br>Uncontrolled Exposure/General Population |     |          |         |                 |                             |                       |                  | Phablet<br>4.0 W/kg (mW/g)<br>averaged over 10 grams |                 |                      |                  |       |                |                       |           |                        |                             |                    |        |

**Table 11-78**  
**WLAN MIMO Phablet SAR During Conditions with 5G NR**

| MEASUREMENT RESULTS                      |     |          |         |                 |                                     |                               |                                     |                               |                  |         |                                           |                      |                  |       |                |                       |           |                        |                             |                    |        |
|------------------------------------------|-----|----------|---------|-----------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|------------------|---------|-------------------------------------------|----------------------|------------------|-------|----------------|-----------------------|-----------|------------------------|-----------------------------|--------------------|--------|
| FREQUENCY                                |     | Mode     | Service | Bandwidth [MHz] | Maximum Allowed Power (Ant 1) [dBm] | Conducted Power (Ant 1) [dBm] | Maximum Allowed Power (Ant 2) [dBm] | Conducted Power (Ant 2) [dBm] | Power Drift [dB] | Spacing | Antenna Config.                           | Device Serial Number | Data Rate (Mbps) | Side  | Duty Cycle (%) | Peak SAR of Area Scan | SAR (10g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (10g) | Plot # |
| MHz                                      | Ch. |          |         |                 |                                     |                               |                                     |                               |                  |         |                                           |                      |                  |       |                | W/kg                  | (W/kg)    |                        |                             | (W/kg)             |        |
| 5290                                     | 58  | 802.11ac | OFDM    | 80              | 13.0                                | 12.97                         | 13.0                                | 12.83                         | -0.16            | 0 mm    | MIMO                                      | 0697M                | 58.5             | back  | 91.0           | 0.928                 | 0.168     | 1.040                  | 1.099                       | 0.192              |        |
| 5290                                     | 58  | 802.11ac | OFDM    | 80              | 13.0                                | 12.97                         | 13.0                                | 12.83                         | 0.00             | 0 mm    | MIMO                                      | 0697M                | 58.5             | front | 91.0           | 0.243                 | 0.021     | 1.040                  | 1.099                       | 0.024              |        |
| 5290                                     | 58  | 802.11ac | OFDM    | 80              | 13.0                                | 12.97                         | 13.0                                | 12.83                         | 0.16             | 0 mm    | MIMO                                      | 0697M                | 58.5             | top   | 91.0           | 0.132                 | -         | 1.040                  | 1.099                       | -                  |        |
| 5290                                     | 58  | 802.11ac | OFDM    | 80              | 13.0                                | 12.97                         | 13.0                                | 12.83                         | 0.00             | 0 mm    | MIMO                                      | 0697M                | 58.5             | left  | 91.0           | 1.174                 | 0.103     | 1.040                  | 1.099                       | 0.118              |        |
| 5690                                     | 138 | 802.11ac | OFDM    | 80              | 13.0                                | 12.61                         | 13.0                                | 12.62                         | 0.14             | 0 mm    | MIMO                                      | 0697M                | 58.5             | back  | 91.0           | 2.032                 | 0.258     | 1.094                  | 1.099                       | 0.310              |        |
| 5690                                     | 138 | 802.11ac | OFDM    | 80              | 13.0                                | 12.61                         | 13.0                                | 12.62                         | 0.00             | 0 mm    | MIMO                                      | 0697M                | 58.5             | front | 91.0           | 0.283                 | 0.031     | 1.094                  | 1.099                       | 0.037              |        |
| 5690                                     | 138 | 802.11ac | OFDM    | 80              | 13.0                                | 12.61                         | 13.0                                | 12.62                         | -0.19            | 0 mm    | MIMO                                      | 0697M                | 58.5             | top   | 91.0           | 0.271                 | -         | 1.094                  | 1.099                       | -                  |        |
| 5690                                     | 138 | 802.11ac | OFDM    | 80              | 13.0                                | 12.61                         | 13.0                                | 12.62                         | 0.14             | 0 mm    | MIMO                                      | 0697M                | 58.5             | left  | 91.0           | 1.114                 | -         | 1.094                  | 1.099                       | -                  |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |     |          |         |                 |                                     |                               |                                     |                               |                  |         |                                           |                      |                  |       |                |                       |           |                        |                             |                    |        |
| Spatial Peak                             |     |          |         |                 |                                     |                               |                                     |                               |                  |         | Phablet                                   |                      |                  |       |                |                       |           |                        |                             |                    |        |
| Uncontrolled Exposure/General Population |     |          |         |                 |                                     |                               |                                     |                               |                  |         | 4.0 W/kg (mW/g)<br>averaged over 10 grams |                      |                  |       |                |                       |           |                        |                             |                    |        |

Note: To achieve the 16.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 13.0 dBm

|                                      |                                                                                                                                                                                                                |                               |                                        |
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## 11.5 SAR Test Notes

### General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB Publication 447498 D01v06.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
6. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 15 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
7. Per FCC KDB Publication 648474 D04v01r03, body-worn SAR was evaluated without a headset connected to the device. Since the standalone reported body-worn SAR was  $\leq 1.2$  W/kg, no additional body-worn SAR evaluations using a headset cable were required.
8. Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 13 for variability analysis.
9. During SAR Testing for the Wireless Router conditions per FCC KDB Publication 941225 D06v02r01, the actual Portable Hotspot operation (with actual simultaneous transmission of a transmitter with WIFI) was not activated (See Section 6.7 for more details).
10. Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the diagonal dimension is  $> 160$  mm and  $< 200$  mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR  $> 1.2$  W/kg.
11. This device supports dynamic antenna tuning for some bands. Per FCC Guidance, SAR was measured according to the normally required SAR measurement configurations with tuner active. The auto-tune state determined by the device was verified before and after each SAR measurement and is listed in tables above. Please see Section 14 for supplemental data.
12. Additional SAR tests for phablet SAR were evaluated per KDB 616217 Section 6 (See Section 6.9 for more information).
13. Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds below.
14. This device uses Qualcomm Smart Transmit for 2G/3G/4G/5G operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance for was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).

### GSM Test Notes:

1. Body-Worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn SAR.
2. Justification for reduced test configurations per KDB Publication 941225 D01v03r01 and October 2013 TCB Workshop Notes: The source-based frame-averaged output power was evaluated for all GPRS/EDGE slot configurations. The configuration with the highest target frame averaged output power was evaluated for hotspot SAR. When the maximum frame-averaged powers are equivalent across two or more slots (within 0.25 dB), the configuration with the most number of time slots was tested.
3. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is  $> \frac{1}{2}$  dB, instead of the middle channel, the highest output power channel was used.

### CDMA Notes:

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
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1. Head SAR for CDMA2000 mode was tested under RC3/SO55 per FCC KDB Publication 941225 D01v03r01.
2. Body-Worn SAR was tested with 1x RTT with TDSO / SO32 FCH Only. EVDO Rev0 and RevA and TDSO / SO32 FCH+SCH SAR tests were not required per the 3G SAR Test Reduction Procedure in FCC KDB Publication 941225 D01v03r01.
3. CDMA Wireless Router SAR is measured using Subtype 0/1 Physical Layer configurations for Rev. 0 according to KDB 941225 D01v03r01 procedures for data devices. Wireless Router SAR tests for Subtype 2 of Rev.A and 1x RTT configurations were not required per the 3G SAR Test Reduction Policy in KDB Publication 941225 D01v03r01.
4. Head SAR was additionally evaluated using EVDO Rev. A to determine compliance for VoIP operations.
5. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is  $> \frac{1}{2}$  dB, instead of the middle channel, the highest output power channel was used.
6. CDMA 1X Advanced technology was not required for SAR since the maximum allowed output powers for 1X Advanced was not more than 0.25 dB higher than the maximum powers for 1X.

#### UMTS Notes:

1. UMTS mode was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
2. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is  $> \frac{1}{2}$  dB, instead of the middle channel, the highest output power channel was used.

#### LTE Notes:

1. LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 8.6.4.
2. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.
3. A-MPR was disabled for all SAR tests by setting NS=01 and MCC=001 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
4. Per FCC KDB Publication 447498 D01v06, when the reported LTE Band 41 or LTE Band 48 SAR measured at the highest output power channel in a given a test configuration was  $> 0.6$  W/kg for 1g evaluations, testing at the other channels was required for such test configurations.
5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.
6. Per KDB Publication 941225 D05Av01r02, SAR for downlink only LTE CA operations was not needed since the maximum average output power in LTE CA mode was not  $> 0.25$  dB higher than the maximum output power when downlink carrier aggregation was inactive.
7. This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per FCC

|                                             |                                                                                                                                                                                                                  |                                      |                                                                                       |                                        |
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Guidance, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions. Please see Section 14 for linearity results.

8. For LTE Band 5, LTE Band 66, LTE Band 48, and LTE Band 41, per FCC guidance, SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when carrier aggregation was not active. The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.
9. This device supports LTE Band 41 ULCA active with Power Class 2. Highest SAR test configuration for each exposure condition in Power Class 3 with ULCA active was repeated with Power Class 2 with ULCA active.

#### NR Notes:

1. NR implementation of n71, n12, n5, n66, n2, n25, and n41 is limited to EN-DC operations only, with LTE Bands 2/5/12/13/30/48/66 acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.
2. Due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.
3. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).
4. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
5. Per FCC Guidance, the device was configured with the tuner state selected by the device in LTE mode with auto-tune active at the same frequency as the NR test results. Additional tuner states were evaluated per April 2019 TCBC Workshop Guidance. Please see Section 14 for supplemental data.
6. Per FCC Guidance, NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
7. For final implementation, NR Band n41 slot configuration is synchronized using maximum duty cycle of 25%. SAR testing was performed using FTM mode with a 25% duty cycle applied to match final duty cycle.

#### WLAN Notes:

1. For held-to-ear, and hotspot, and phablet operations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When reported SAR for the initial test position is  $\leq 0.4$  W/kg for 1g evaluations, no additional testing for the remaining test positions was required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is  $\leq 0.8$  W/kg or all test positions are measured.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n/ax) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 8.7.5 for more information.
3. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg for 1g evaluations. See Section 8.7.6 for more information.
4. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D01v06 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see Section 12 for complete analysis.

|                                             |                                                                                                                                                                                                                        |                                      |                                                                                       |                                        |
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5. When the maximum reported 1g averaged SAR is  $\leq 0.8$  W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was  $\leq 1.20$  W/kg for 1g evaluations or all test channels were measured.
6. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.
7. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

#### Bluetooth Notes

1. Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests test mode type. Per October 2016 TCB Workshop Notes, the reported SAR was scaled to the 100% transmission duty factor to determine compliance. See Section 9.7 for the time domain plot and calculation for the duty factor of the device.
2. Head and Hotspot Bluetooth SAR were evaluated for BT BR tethering applications.

|                                             |                                                                                                                                             |                                      |                                                                                       |                                        |
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## 12 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

### 12.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D01v06 are applicable to devices with built-in unlicensed transmitters such as 802.11 and Bluetooth devices which may simultaneously transmit with the licensed transmitter.

### 12.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D01v06 4.3.2 and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1g SAR for all the simultaneous transmitting antennas in a specific physical test configuration is  $\leq 1.6$  W/kg. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1g or 10g SAR.

Per FCC KDB Publication 941225 D06v02r01, the devices edges with antennas more than 2.5 cm from edge are not required to be evaluated for SAR (“-”).

(\*) For test positions that were not required to be evaluated for WLAN SAR per FCC KDB publication 248227, the worst case WLAN SAR result for the applicable exposure conditions was used for simultaneous transmission analysis.

Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G operations is demonstrated in the Qualcomm Part 2 Report during algorithm validation.

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
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## 12.3 Head SAR Simultaneous Transmission Analysis

**Table 12-1**  
**Simultaneous Transmission Scenario with 2.4 GHz WLAN (Held to Ear)**

| Exposure Condition | Mode                  | 2G/3G/4G/5G SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |       |              |
|--------------------|-----------------------|------------------------|-------------------------------|-------------------------------|---------------------|-------|--------------|
|                    |                       | 1                      | 2                             | 3                             | 1+2                 | 1+3   | 1+2+3        |
| Head SAR           | CDMA/EVDO BC10 (§90S) | 0.266                  | 0.832                         | 0.024                         | 1.098               | 0.290 | 1.122        |
|                    | CDMA/EVDO BC0 (§22H)  | 0.190                  | 0.832                         | 0.024                         | 1.022               | 0.214 | 1.046        |
|                    | PCS CDMA/EVDO         | 0.124                  | 0.832                         | 0.024                         | 0.956               | 0.148 | 0.980        |
|                    | GSM 850               | 0.048                  | 0.832                         | 0.024                         | 0.880               | 0.072 | 0.904        |
|                    | GSM 1900              | 0.056                  | 0.832                         | 0.024                         | 0.888               | 0.080 | 0.912        |
|                    | UMTS 850              | 0.163                  | 0.832                         | 0.024                         | 0.995               | 0.187 | 1.019        |
|                    | UMTS 1750             | 0.148                  | 0.832                         | 0.024                         | 0.980               | 0.172 | 1.004        |
|                    | UMTS 1900             | 0.109                  | 0.832                         | 0.024                         | 0.941               | 0.133 | 0.965        |
|                    | LTE Band 71           | 0.123                  | 0.832                         | 0.024                         | 0.955               | 0.147 | 0.979        |
|                    | LTE Band 12           | 0.127                  | 0.832                         | 0.024                         | 0.959               | 0.151 | 0.983        |
|                    | LTE Band 13           | 0.244                  | 0.832                         | 0.024                         | 1.076               | 0.268 | 1.100        |
|                    | LTE Band 14           | 0.187                  | 0.832                         | 0.024                         | 1.019               | 0.211 | 1.043        |
|                    | LTE Band 26 (Cell)    | 0.167                  | 0.832                         | 0.024                         | 0.999               | 0.191 | 1.023        |
|                    | LTE Band 5 (Cell)     | 0.185                  | 0.832                         | 0.024                         | 1.017               | 0.209 | 1.041        |
|                    | LTE Band 66 (AWS)     | 0.147                  | 0.832                         | 0.024                         | 0.979               | 0.171 | 1.003        |
|                    | LTE Band 25 (PCS)     | 0.132                  | 0.832                         | 0.024                         | 0.964               | 0.156 | 0.988        |
|                    | LTE Band 30           | 0.055                  | 0.832                         | 0.024                         | 0.887               | 0.079 | 0.911        |
|                    | LTE Band 7            | 0.128                  | 0.832                         | 0.024                         | 0.960               | 0.152 | 0.984        |
|                    | LTE Band 48           | 0.505                  | 0.832                         | 0.024                         | 1.337               | 0.529 | 1.361        |
|                    | LTE Band 41           | 0.087                  | 0.832                         | 0.024                         | 0.919               | 0.111 | 0.943        |
|                    | NR Band n71           | 0.127                  | 0.832                         | 0.024                         | 0.959               | 0.151 | 0.983        |
|                    | NR Band n12           | 0.130                  | 0.832                         | 0.024                         | 0.962               | 0.154 | 0.986        |
|                    | NR Band n5 (Cell)     | 0.180                  | 0.832                         | 0.024                         | 1.012               | 0.204 | 1.036        |
|                    | NR Band n66 (AWS)     | 0.145                  | 0.832                         | 0.024                         | 0.977               | 0.169 | 1.001        |
|                    | NR Band n25 (PCS)     | 0.148                  | 0.832                         | 0.024                         | 0.980               | 0.172 | 1.004        |
|                    | NR Band n41           | 0.587                  | 0.832                         | 0.024                         | 1.419               | 0.611 | <b>1.443</b> |

Note: The above n41 SAR result is the reported time-averaged SAR. The analysis for this calculation can be found in Table 12-6

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
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**Table 12-2**  
**Simultaneous Transmission Scenario with 5 GHz WLAN (Held to Ear)**

| Exposure Condition | Mode                  | 2G/3G/4G/5G SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |       |              |
|--------------------|-----------------------|------------------------|-----------------------------|-----------------------------|---------------------|-------|--------------|
|                    |                       | 1                      | 2                           | 3                           | 1+2                 | 1+3   | 1+2+3        |
| Head SAR           | CDMA/EVDO BC10 (§90S) | 0.266                  | 0.044                       | 0.018                       | 0.310               | 0.284 | 0.328        |
|                    | CDMA/EVDO BC0 (§22H)  | 0.190                  | 0.044                       | 0.018                       | 0.234               | 0.208 | 0.252        |
|                    | PCS CDMA/EVDO         | 0.124                  | 0.044                       | 0.018                       | 0.168               | 0.142 | 0.186        |
|                    | GSM 850               | 0.048                  | 0.044                       | 0.018                       | 0.092               | 0.066 | 0.110        |
|                    | GSM 1900              | 0.056                  | 0.044                       | 0.018                       | 0.100               | 0.074 | 0.118        |
|                    | UMTS 850              | 0.163                  | 0.044                       | 0.018                       | 0.207               | 0.181 | 0.225        |
|                    | UMTS 1750             | 0.148                  | 0.044                       | 0.018                       | 0.192               | 0.166 | 0.210        |
|                    | UMTS 1900             | 0.109                  | 0.044                       | 0.018                       | 0.153               | 0.127 | 0.171        |
|                    | LTE Band 71           | 0.123                  | 0.044                       | 0.018                       | 0.167               | 0.141 | 0.185        |
|                    | LTE Band 12           | 0.127                  | 0.044                       | 0.018                       | 0.171               | 0.145 | 0.189        |
|                    | LTE Band 13           | 0.244                  | 0.044                       | 0.018                       | 0.288               | 0.262 | 0.306        |
|                    | LTE Band 14           | 0.187                  | 0.044                       | 0.018                       | 0.231               | 0.205 | 0.249        |
|                    | LTE Band 26 (Cell)    | 0.167                  | 0.044                       | 0.018                       | 0.211               | 0.185 | 0.229        |
|                    | LTE Band 5 (Cell)     | 0.185                  | 0.044                       | 0.018                       | 0.229               | 0.203 | 0.247        |
|                    | LTE Band 66 (AWS)     | 0.147                  | 0.044                       | 0.018                       | 0.191               | 0.165 | 0.209        |
|                    | LTE Band 25 (PCS)     | 0.132                  | 0.044                       | 0.018                       | 0.176               | 0.150 | 0.194        |
|                    | LTE Band 30           | 0.055                  | 0.044                       | 0.018                       | 0.099               | 0.073 | 0.117        |
|                    | LTE Band 7            | 0.128                  | 0.044                       | 0.018                       | 0.172               | 0.146 | 0.190        |
|                    | LTE Band 48           | 0.505                  | 0.044                       | 0.018                       | 0.549               | 0.523 | 0.567        |
|                    | LTE Band 41           | 0.087                  | 0.044                       | 0.018                       | 0.131               | 0.105 | 0.149        |
|                    | NR Band n71           | 0.127                  | 0.044                       | 0.018                       | 0.171               | 0.145 | 0.189        |
|                    | NR Band n12           | 0.130                  | 0.044                       | 0.018                       | 0.174               | 0.148 | 0.192        |
|                    | NR Band n5 (Cell)     | 0.180                  | 0.044                       | 0.018                       | 0.224               | 0.198 | 0.242        |
|                    | NR Band n66 (AWS)     | 0.145                  | 0.044                       | 0.018                       | 0.189               | 0.163 | 0.207        |
|                    | NR Band n25 (PCS)     | 0.148                  | 0.044                       | 0.018                       | 0.192               | 0.166 | 0.210        |
|                    | NR Band n41           | 0.587                  | 0.044                       | 0.018                       | 0.631               | 0.605 | <b>0.649</b> |

Note: The above n41 SAR result is the reported time-averaged SAR. The analysis for this calculation can be found in Table 12-6

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
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**Table 12-3**  
**Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 5 GHz WLAN MIMO (Held to Ear)**

| Exposure Condition | Mode                  | 2G/3G/4G/5G SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) |
|--------------------|-----------------------|------------------------|-------------------------------|-------------------------------|-----------------------------|-----------------------------|--------------|
|                    |                       | 1                      | 2                             | 3                             | 4                           | 5                           | 1+2+3+4+5    |
| Head SAR           | CDMA/EVDO BC10 (§90S) | 0.266                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 1.184        |
|                    | CDMA/EVDO BC0 (§22H)  | 0.190                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 1.108        |
|                    | PCS CDMA/EVDO         | 0.124                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 1.042        |
|                    | GSM 850               | 0.048                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 0.966        |
|                    | GSM 1900              | 0.056                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 0.974        |
|                    | UMTS 850              | 0.163                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 1.081        |
|                    | UMTS 1750             | 0.148                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 1.066        |
|                    | UMTS 1900             | 0.109                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 1.027        |
|                    | LTE Band 71           | 0.123                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 1.041        |
|                    | LTE Band 12           | 0.127                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 1.045        |
|                    | LTE Band 13           | 0.244                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 1.162        |
|                    | LTE Band 14           | 0.187                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 1.105        |
|                    | LTE Band 26 (Cell)    | 0.167                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 1.085        |
|                    | LTE Band 5 (Cell)     | 0.185                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 1.103        |
|                    | LTE Band 66 (AWS)     | 0.147                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 1.065        |
|                    | LTE Band 25 (PCS)     | 0.132                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 1.050        |
|                    | LTE Band 30           | 0.055                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 0.973        |
|                    | LTE Band 7            | 0.128                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 1.046        |
|                    | LTE Band 48           | 0.505                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 1.423        |
|                    | LTE Band 41           | 0.087                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 1.005        |
|                    | NR Band n71           | 0.127                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 1.045        |
|                    | NR Band n12           | 0.130                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 1.048        |
|                    | NR Band n5 (Cell)     | 0.180                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 1.098        |
|                    | NR Band n66 (AWS)     | 0.145                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 1.063        |
|                    | NR Band n25 (PCS)     | 0.148                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | 1.066        |
|                    | NR Band n41           | 0.587                  | 0.832                         | 0.024                         | 0.044                       | 0.018                       | <b>1.505</b> |

Note: The above n41 SAR result is the reported time-averaged SAR. The analysis for this calculation can be found in Table 12-6

|                                      |                                                                                                                                                                                                                               |                               |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                            | DUT Type:<br>Portable Handset |                                                                                       | Page 247 of 305                 |



**Table 12-4**  
**Simultaneous Transmission Scenario with Bluetooth (Held to Ear)**

| Exposure Condition | Mode                  | 2G/3G/4G/5G SAR (W/kg) | Bluetooth SAR (W/kg) | $\Sigma$ SAR (W/kg) |
|--------------------|-----------------------|------------------------|----------------------|---------------------|
|                    |                       | 1                      | 2                    | 1+2                 |
| Head SAR           | CDMA/EVDO BC10 (§90S) | 0.266                  | 0.591                | 0.857               |
|                    | CDMA/EVDO BC0 (§22H)  | 0.190                  | 0.591                | 0.781               |
|                    | PCS CDMA/EVDO         | 0.124                  | 0.591                | 0.715               |
|                    | GSM 850               | 0.048                  | 0.591                | 0.639               |
|                    | GSM 1900              | 0.056                  | 0.591                | 0.647               |
|                    | UMTS 850              | 0.163                  | 0.591                | 0.754               |
|                    | UMTS 1750             | 0.148                  | 0.591                | 0.739               |
|                    | UMTS 1900             | 0.109                  | 0.591                | 0.700               |
|                    | LTE Band 71           | 0.123                  | 0.591                | 0.714               |
|                    | LTE Band 12           | 0.127                  | 0.591                | 0.718               |
|                    | LTE Band 13           | 0.244                  | 0.591                | 0.835               |
|                    | LTE Band 14           | 0.187                  | 0.591                | 0.778               |
|                    | LTE Band 26 (Cell)    | 0.167                  | 0.591                | 0.758               |
|                    | LTE Band 5 (Cell)     | 0.185                  | 0.591                | 0.776               |
|                    | LTE Band 66 (AWS)     | 0.147                  | 0.591                | 0.738               |
|                    | LTE Band 25 (PCS)     | 0.132                  | 0.591                | 0.723               |
|                    | LTE Band 30           | 0.055                  | 0.591                | 0.646               |
|                    | LTE Band 7            | 0.128                  | 0.591                | 0.719               |
|                    | LTE Band 48           | 0.505                  | 0.591                | 1.096               |
|                    | LTE Band 41           | 0.087                  | 0.591                | 0.678               |
|                    | NR Band n71           | 0.127                  | 0.591                | 0.718               |
|                    | NR Band n12           | 0.130                  | 0.591                | 0.721               |
|                    | NR Band n5 (Cell)     | 0.180                  | 0.591                | 0.771               |
|                    | NR Band n66 (AWS)     | 0.145                  | 0.591                | 0.736               |
|                    | NR Band n25 (PCS)     | 0.148                  | 0.591                | 0.739               |
|                    | NR Band n41           | 0.587                  | 0.591                | <b>1.178</b>        |

Note: The above n41 SAR result is the reported time-averaged SAR. The analysis for this calculation can be found in Table 12-6

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 248 of 305                                                                       |                                        |



**Table 12-5**  
**Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN (Held to Ear)**

| Exposure Condition | Mode                  | 2G/3G/4G/5G SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |       |              |
|--------------------|-----------------------|------------------------|----------------------|-----------------------------|-----------------------------|---------------------|-------|--------------|
|                    |                       | 1                      | 2                    | 3                           | 4                           | 1+2+3               | 1+2+4 | 1+2+3+4      |
| Head SAR           | CDMA/EVDO BC10 (§90S) | 0.266                  | 0.591                | 0.044                       | 0.018                       | 0.901               | 0.875 | 0.919        |
|                    | CDMA/EVDO BC0 (§22H)  | 0.190                  | 0.591                | 0.044                       | 0.018                       | 0.825               | 0.799 | 0.843        |
|                    | PCS CDMA/EVDO         | 0.124                  | 0.591                | 0.044                       | 0.018                       | 0.759               | 0.733 | 0.777        |
|                    | GSM 850               | 0.048                  | 0.591                | 0.044                       | 0.018                       | 0.683               | 0.657 | 0.701        |
|                    | GSM 1900              | 0.056                  | 0.591                | 0.044                       | 0.018                       | 0.691               | 0.665 | 0.709        |
|                    | UMTS 850              | 0.163                  | 0.591                | 0.044                       | 0.018                       | 0.798               | 0.772 | 0.816        |
|                    | UMTS 1750             | 0.148                  | 0.591                | 0.044                       | 0.018                       | 0.783               | 0.757 | 0.801        |
|                    | UMTS 1900             | 0.109                  | 0.591                | 0.044                       | 0.018                       | 0.744               | 0.718 | 0.762        |
|                    | LTE Band 71           | 0.123                  | 0.591                | 0.044                       | 0.018                       | 0.758               | 0.732 | 0.776        |
|                    | LTE Band 12           | 0.127                  | 0.591                | 0.044                       | 0.018                       | 0.762               | 0.736 | 0.780        |
|                    | LTE Band 13           | 0.244                  | 0.591                | 0.044                       | 0.018                       | 0.879               | 0.853 | 0.897        |
|                    | LTE Band 14           | 0.187                  | 0.591                | 0.044                       | 0.018                       | 0.822               | 0.796 | 0.840        |
|                    | LTE Band 26 (Cell)    | 0.167                  | 0.591                | 0.044                       | 0.018                       | 0.802               | 0.776 | 0.820        |
|                    | LTE Band 5 (Cell)     | 0.185                  | 0.591                | 0.044                       | 0.018                       | 0.820               | 0.794 | 0.838        |
|                    | LTE Band 66 (AWS)     | 0.147                  | 0.591                | 0.044                       | 0.018                       | 0.782               | 0.756 | 0.800        |
|                    | LTE Band 25 (PCS)     | 0.132                  | 0.591                | 0.044                       | 0.018                       | 0.767               | 0.741 | 0.785        |
|                    | LTE Band 30           | 0.055                  | 0.591                | 0.044                       | 0.018                       | 0.690               | 0.664 | 0.708        |
|                    | LTE Band 7            | 0.128                  | 0.591                | 0.044                       | 0.018                       | 0.763               | 0.737 | 0.781        |
|                    | LTE Band 48           | 0.505                  | 0.591                | 0.044                       | 0.018                       | 1.140               | 1.114 | 1.158        |
|                    | LTE Band 41           | 0.087                  | 0.591                | 0.044                       | 0.018                       | 0.722               | 0.696 | 0.740        |
|                    | NR Band n71           | 0.127                  | 0.591                | 0.044                       | 0.018                       | 0.762               | 0.736 | 0.780        |
|                    | NR Band n12           | 0.130                  | 0.591                | 0.044                       | 0.018                       | 0.765               | 0.739 | 0.783        |
|                    | NR Band n5 (Cell)     | 0.180                  | 0.591                | 0.044                       | 0.018                       | 0.815               | 0.789 | 0.833        |
|                    | NR Band n66 (AWS)     | 0.145                  | 0.591                | 0.044                       | 0.018                       | 0.780               | 0.754 | 0.798        |
|                    | NR Band n25 (PCS)     | 0.148                  | 0.591                | 0.044                       | 0.018                       | 0.783               | 0.757 | 0.801        |
|                    | NR Band n41           | 0.587                  | 0.591                | 0.044                       | 0.018                       | 1.222               | 1.196 | <b>1.240</b> |

Note: The above n41 SAR result is the reported time-averaged SAR. The analysis for this calculation can be found in Table 12-6

|                                      |                                                                                                                                                                                                                               |                               |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                            | DUT Type:<br>Portable Handset |                                                                                       | Page 249 of 305                 |

**Table 12-6**  
**Time-Averaged n41 Head SAR Calculation**

|                                         |       |
|-----------------------------------------|-------|
| Target NR Pmax (dBm)                    | 18.5  |
| Target NR Plimit (dBm)                  | 16.5  |
| NR Plimit * 0.75 (dBm)                  | 15.25 |
| NR Reported SAR at Plimit (W/kg)        | 0.782 |
| NR Reported SAR for Simultaneous (W/kg) | 0.587 |

Note: The smart transmit algorithm with reserve power margin 3 limits 5G NR exposure to 75% of the Plimit for that band. Therefore, the time-averaged n41 SAR was calculated with respect to 75% of Plimit. The validation of this time-averaged parameter is included in the Part 2 test report.

|                                             |                                                                                                                                                               |                                      |                                                                                       |                                        |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the Samsung ecosystem</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                     | <b>DUT Type:</b><br>Portable Handset | Page 250 of 305                                                                       |                                        |

## 12.4 Body-Worn Simultaneous Transmission Analysis

**Table 12-7**  
**Simultaneous Transmission Scenario with 2.4 GHz WLAN (Body-Worn at 1.5 cm)**

| Exposure Condition | Mode              | 2G/3G/4G/5G SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |       |              |
|--------------------|-------------------|------------------------|-------------------------------|-------------------------------|---------------------|-------|--------------|
|                    |                   | 1                      | 2                             | 3                             | 1+2                 | 1+3   | 1+2+3        |
| Body-Worn          | CDMA BC10         | 0.472                  | 0.104                         | 0.057                         | 0.576               | 0.529 | 0.633        |
|                    | CDMA BC0          | 0.410                  | 0.104                         | 0.057                         | 0.514               | 0.467 | 0.571        |
|                    | PCS CDMA          | 0.684                  | 0.104                         | 0.057                         | 0.788               | 0.741 | 0.845        |
|                    | GPRS 850          | 0.276                  | 0.104                         | 0.057                         | 0.380               | 0.333 | 0.437        |
|                    | GPRS 1900         | 0.398                  | 0.104                         | 0.057                         | 0.502               | 0.455 | 0.559        |
|                    | UMTS 850          | 0.372                  | 0.104                         | 0.057                         | 0.476               | 0.429 | 0.533        |
|                    | UMTS 1750         | 0.794                  | 0.104                         | 0.057                         | 0.898               | 0.851 | 0.955        |
|                    | UMTS 1900         | 0.769                  | 0.104                         | 0.057                         | 0.873               | 0.826 | 0.930        |
|                    | LTE Band 71       | 0.246                  | 0.104                         | 0.057                         | 0.350               | 0.303 | 0.407        |
|                    | LTE Band 12       | 0.251                  | 0.104                         | 0.057                         | 0.355               | 0.308 | 0.412        |
|                    | LTE Band 13       | 0.384                  | 0.104                         | 0.057                         | 0.488               | 0.441 | 0.545        |
|                    | LTE Band 14       | 0.428                  | 0.104                         | 0.057                         | 0.532               | 0.485 | 0.589        |
|                    | LTE Band 26       | 0.335                  | 0.104                         | 0.057                         | 0.439               | 0.392 | 0.496        |
|                    | LTE Band 5 (Cell) | 0.388                  | 0.104                         | 0.057                         | 0.492               | 0.445 | 0.549        |
|                    | LTE Band 66       | 1.009                  | 0.104                         | 0.057                         | 1.113               | 1.066 | 1.170        |
|                    | LTE Band 25       | 0.830                  | 0.104                         | 0.057                         | 0.934               | 0.887 | 0.991        |
|                    | LTE Band 30       | 0.530                  | 0.104                         | 0.057                         | 0.634               | 0.587 | 0.691        |
|                    | LTE Band 7        | 0.469                  | 0.104                         | 0.057                         | 0.573               | 0.526 | 0.630        |
|                    | LTE Band 48       | 0.357                  | 0.104                         | 0.057                         | 0.461               | 0.414 | 0.518        |
|                    | LTE Band 41       | 0.315                  | 0.104                         | 0.057                         | 0.419               | 0.372 | 0.476        |
|                    | NR Band n71       | 0.234                  | 0.104                         | 0.057                         | 0.338               | 0.291 | 0.395        |
|                    | NR Band n12       | 0.227                  | 0.104                         | 0.057                         | 0.331               | 0.284 | 0.388        |
|                    | NR Band n5 (Cell) | 0.309                  | 0.104                         | 0.057                         | 0.413               | 0.366 | 0.470        |
|                    | NR Band n66       | 1.036                  | 0.104                         | 0.057                         | 1.140               | 1.093 | <b>1.197</b> |
|                    | NR Band n25       | 0.755                  | 0.104                         | 0.057                         | 0.859               | 0.812 | 0.916        |
|                    | NR Band n41       | 0.102                  | 0.104                         | 0.057                         | 0.206               | 0.159 | 0.263        |

|                                      |                                                                                                                                                                                                                                                                                   |                               |                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   | <div><div>PCTEST<br/>Proud to be part of Samsung</div></div> <div>SAR EVALUATION REPORT</div> <div></div> |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                | DUT Type:<br>Portable Handset | Page 251 of 305                 |

**Table 12-8**  
**Simultaneous Transmission Scenario with 5 GHz WLAN SISO (Body-Worn at 1.5 cm)**

| Exposure Condition | Mode               | 2G/3G/4G/5G SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |       |
|--------------------|--------------------|------------------------|-----------------------------|-----------------------------|---------------------|-------|
|                    |                    | 1                      | 2                           | 3                           | 1+2                 | 1+3   |
| Body-Worn          | CDMA BC10 (\$90S)  | 0.472                  | 0.502                       | 0.410                       | 0.974               | 0.882 |
|                    | CDMA BC0 (\$22H)   | 0.410                  | 0.502                       | 0.410                       | 0.912               | 0.820 |
|                    | PCS CDMA           | 0.684                  | 0.502                       | 0.410                       | 1.186               | 1.094 |
|                    | GPRS 850           | 0.276                  | 0.502                       | 0.410                       | 0.778               | 0.686 |
|                    | GPRS 1900          | 0.398                  | 0.502                       | 0.410                       | 0.900               | 0.808 |
|                    | UMTS 850           | 0.372                  | 0.502                       | 0.410                       | 0.874               | 0.782 |
|                    | UMTS 1750          | 0.794                  | 0.502                       | 0.410                       | 1.296               | 1.204 |
|                    | UMTS 1900          | 0.769                  | 0.502                       | 0.410                       | 1.271               | 1.179 |
|                    | LTE Band 71        | 0.246                  | 0.502                       | 0.410                       | 0.748               | 0.656 |
|                    | LTE Band 12        | 0.251                  | 0.502                       | 0.410                       | 0.753               | 0.661 |
|                    | LTE Band 13        | 0.384                  | 0.502                       | 0.410                       | 0.886               | 0.794 |
|                    | LTE Band 14        | 0.428                  | 0.502                       | 0.410                       | 0.930               | 0.838 |
|                    | LTE Band 26 (Cell) | 0.335                  | 0.502                       | 0.410                       | 0.837               | 0.745 |
|                    | LTE Band 5 (Cell)  | 0.388                  | 0.502                       | 0.410                       | 0.890               | 0.798 |
|                    | LTE Band 66 (AWS)  | 1.009                  | 0.502                       | 0.410                       | 1.511               | 1.419 |
|                    | LTE Band 25 (PCS)  | 0.830                  | 0.502                       | 0.410                       | 1.332               | 1.240 |
|                    | LTE Band 30        | 0.530                  | 0.502                       | 0.410                       | 1.032               | 0.940 |
|                    | LTE Band 7         | 0.469                  | 0.502                       | 0.410                       | 0.971               | 0.879 |
|                    | LTE Band 48        | 0.357                  | 0.502                       | 0.410                       | 0.859               | 0.767 |
|                    | LTE Band 41        | 0.315                  | 0.502                       | 0.410                       | 0.817               | 0.725 |
|                    | NR Band n71        | 0.234                  | 0.502                       | 0.410                       | 0.736               | 0.644 |
|                    | NR Band n12        | 0.227                  | 0.502                       | 0.410                       | 0.729               | 0.637 |
|                    | NR Band n5 (Cell)  | 0.309                  | 0.502                       | 0.410                       | 0.811               | 0.719 |
|                    | NR Band n66 (AWS)  | 1.036                  | 0.502                       | 0.410                       | <b>1.538</b>        | 1.446 |
|                    | NR Band n25 (PCS)  | 0.755                  | 0.502                       | 0.410                       | 1.257               | 1.165 |
|                    | NR Band n41        | 0.102                  | 0.502                       | 0.410                       | 0.604               | 0.512 |

|                                      |                                                                                                                                                                                                                             |                               |                                                                                       |                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                          | DUT Type:<br>Portable Handset | Page 252 of 305                                                                       |                                 |

**Table 12-9**  
**Simultaneous Transmission Scenario with 5 GHz WLAN MIMO (Body-Worn at 1.5 cm)**

| Exposure Condition | Mode               | 2G/3G/4G/5G SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | $\Sigma$ SAR (W/kg) | SPLSR |
|--------------------|--------------------|------------------------|----------------------------|---------------------|-------|
|                    |                    | 1                      | 2                          | 1+2                 | 1+2   |
| Body-Worn          | CDMA BC10 (§90S)   | 0.472                  | 0.865                      | 1.337               | N/A   |
|                    | CDMA BC0 (§22H)    | 0.410                  | 0.865                      | 1.275               | N/A   |
|                    | PCS CDMA           | 0.684                  | 0.865                      | <b>1.549</b>        | N/A   |
|                    | GPRS 850           | 0.276                  | 0.865                      | 1.141               | N/A   |
|                    | GPRS 1900          | 0.398                  | 0.865                      | 1.263               | N/A   |
|                    | UMTS 850           | 0.372                  | 0.865                      | 1.237               | N/A   |
|                    | UMTS 1750          | 0.794                  | 0.865                      | See Note 1          | 0.01  |
|                    | UMTS 1900          | 0.769                  | 0.865                      | See Note 1          | 0.01  |
|                    | LTE Band 71        | 0.246                  | 0.865                      | 1.111               | N/A   |
|                    | LTE Band 12        | 0.251                  | 0.865                      | 1.116               | N/A   |
|                    | LTE Band 13        | 0.384                  | 0.865                      | 1.249               | N/A   |
|                    | LTE Band 14        | 0.428                  | 0.865                      | 1.293               | N/A   |
|                    | LTE Band 26 (Cell) | 0.335                  | 0.865                      | 1.200               | N/A   |
|                    | LTE Band 5 (Cell)  | 0.388                  | 0.865                      | 1.253               | N/A   |
|                    | LTE Band 66 (AWS)  | 1.009                  | 0.865                      | See Note 1          | 0.02  |
|                    | LTE Band 25 (PCS)  | 0.830                  | 0.865                      | See Note 1          | 0.01  |
|                    | LTE Band 30        | 0.530                  | 0.865                      | 1.395               | N/A   |
|                    | LTE Band 7         | 0.469                  | 0.865                      | 1.334               | N/A   |
|                    | LTE Band 48        | 0.357                  | 0.865                      | 1.222               | N/A   |
|                    | LTE Band 41        | 0.315                  | 0.865                      | 1.180               | N/A   |
|                    | NR Band n71        | 0.234                  | 0.865                      | 1.099               | N/A   |
|                    | NR Band n12        | 0.227                  | 0.865                      | 1.092               | N/A   |
|                    | NR Band n5 (Cell)  | 0.309                  | 0.865                      | 1.174               | N/A   |
|                    | NR Band n66 (AWS)  | 1.036                  | 0.865                      | See Note 1          | 0.02  |
|                    | NR Band n25 (PCS)  | 0.755                  | 0.865                      | See Note 1          | 0.01  |
|                    | NR Band n41        | 0.102                  | 0.865                      | 0.967               | N/A   |

Note 1 - No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. See Section 12.7 for detailed SPLS ratio analysis.

|                                             |                                                                                                                                                                                                                                 |                                      |                                                                                       |                                        |
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| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                       | <b>DUT Type:</b><br>Portable Handset | Page 253 of 305                                                                       |                                        |

**Table 12-10**  
**Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 5 GHz WLAN MIMO (Body-Worn at 1.5 cm)**

| Exposure Condition | Mode               | 2G/3G/4G/5G SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | 5 GHz WLAN MIMO at 15 dBm SAR (W/kg) | Σ SAR (W/kg) |
|--------------------|--------------------|------------------------|-------------------------------|-------------------------------|--------------------------------------|--------------|
|                    |                    | 1                      | 2                             | 3                             | 4                                    | 1+2+3+4      |
| Body-Worn          | CDMA BC10 (§90S)   | 0.472                  | 0.104                         | 0.057                         | 0.175                                | 0.808        |
|                    | CDMA BC0 (§22H)    | 0.410                  | 0.104                         | 0.057                         | 0.175                                | 0.746        |
|                    | PCS CDMA           | 0.684                  | 0.104                         | 0.057                         | 0.175                                | 1.020        |
|                    | GPRS 850           | 0.276                  | 0.104                         | 0.057                         | 0.175                                | 0.612        |
|                    | GPRS 1900          | 0.398                  | 0.104                         | 0.057                         | 0.175                                | 0.734        |
|                    | UMTS 850           | 0.372                  | 0.104                         | 0.057                         | 0.175                                | 0.708        |
|                    | UMTS 1750          | 0.794                  | 0.104                         | 0.057                         | 0.175                                | 1.130        |
|                    | UMTS 1900          | 0.769                  | 0.104                         | 0.057                         | 0.175                                | 1.105        |
|                    | LTE Band 71        | 0.246                  | 0.104                         | 0.057                         | 0.175                                | 0.582        |
|                    | LTE Band 12        | 0.251                  | 0.104                         | 0.057                         | 0.175                                | 0.587        |
|                    | LTE Band 13        | 0.384                  | 0.104                         | 0.057                         | 0.175                                | 0.720        |
|                    | LTE Band 14        | 0.428                  | 0.104                         | 0.057                         | 0.175                                | 0.764        |
|                    | LTE Band 26 (Cell) | 0.335                  | 0.104                         | 0.057                         | 0.175                                | 0.671        |
|                    | LTE Band 5 (Cell)  | 0.388                  | 0.104                         | 0.057                         | 0.175                                | 0.724        |
|                    | LTE Band 66 (AWS)  | 1.009                  | 0.104                         | 0.057                         | 0.175                                | 1.345        |
|                    | LTE Band 25 (PCS)  | 0.830                  | 0.104                         | 0.057                         | 0.175                                | 1.166        |
|                    | LTE Band 30        | 0.530                  | 0.104                         | 0.057                         | 0.175                                | 0.866        |
|                    | LTE Band 7         | 0.469                  | 0.104                         | 0.057                         | 0.175                                | 0.805        |
|                    | LTE Band 48        | 0.357                  | 0.104                         | 0.057                         | 0.175                                | 0.693        |
|                    | LTE Band 41        | 0.315                  | 0.104                         | 0.057                         | 0.175                                | 0.651        |
|                    | NR Band n71        | 0.234                  | 0.104                         | 0.057                         | 0.175                                | 0.570        |
|                    | NR Band n12        | 0.227                  | 0.104                         | 0.057                         | 0.175                                | 0.563        |
|                    | NR Band n5 (Cell)  | 0.309                  | 0.104                         | 0.057                         | 0.175                                | 0.645        |
|                    | NR Band n66 (AWS)  | 1.036                  | 0.104                         | 0.057                         | 0.175                                | <b>1.372</b> |
|                    | NR Band n25 (PCS)  | 0.755                  | 0.104                         | 0.057                         | 0.175                                | 1.091        |
|                    | NR Band n41        | 0.102                  | 0.104                         | 0.057                         | 0.175                                | 0.438        |

|                     |                                                                                                                                                                                                                               |                              |                     |
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| Document S/N:       | Test Dates:                                                                                                                                                                                                                   | DUT Type:                    | Quality Manager     |
| 1M2004170065-01.A3L | 04/22/20 - 06/07/20                                                                                                                                                                                                           | Portable Handset             | Page 254 of 305     |

**Table 12-11**  
**Simultaneous Transmission Scenario with Bluetooth (Body-Worn at 1.5 cm)**

| Exposure<br>Condition | Mode               | 2G/3G/4G/5G<br>SAR (W/kg) | Bluetooth<br>SAR (W/kg) | Σ SAR<br>(W/kg) |
|-----------------------|--------------------|---------------------------|-------------------------|-----------------|
|                       |                    | 1                         | 2                       | 1+2             |
| Body-Worn             | CDMA BC10 (§90S)   | 0.472                     | 0.045                   | 0.517           |
|                       | CDMA BC0 (§22H)    | 0.410                     | 0.045                   | 0.455           |
|                       | PCS CDMA           | 0.684                     | 0.045                   | 0.729           |
|                       | GPRS 850           | 0.276                     | 0.045                   | 0.321           |
|                       | GPRS 1900          | 0.398                     | 0.045                   | 0.443           |
|                       | UMTS 850           | 0.372                     | 0.045                   | 0.417           |
|                       | UMTS 1750          | 0.794                     | 0.045                   | 0.839           |
|                       | UMTS 1900          | 0.769                     | 0.045                   | 0.814           |
|                       | LTE Band 71        | 0.246                     | 0.045                   | 0.291           |
|                       | LTE Band 12        | 0.251                     | 0.045                   | 0.296           |
|                       | LTE Band 13        | 0.384                     | 0.045                   | 0.429           |
|                       | LTE Band 14        | 0.428                     | 0.045                   | 0.473           |
|                       | LTE Band 26 (Cell) | 0.335                     | 0.045                   | 0.380           |
|                       | LTE Band 5 (Cell)  | 0.388                     | 0.045                   | 0.433           |
|                       | LTE Band 66 (AWS)  | 1.009                     | 0.045                   | 1.054           |
|                       | LTE Band 25 (PCS)  | 0.830                     | 0.045                   | 0.875           |
|                       | LTE Band 30        | 0.530                     | 0.045                   | 0.575           |
|                       | LTE Band 7         | 0.469                     | 0.045                   | 0.514           |
|                       | LTE Band 48        | 0.357                     | 0.045                   | 0.402           |
|                       | LTE Band 41        | 0.315                     | 0.045                   | 0.360           |
|                       | NR Band n71        | 0.234                     | 0.045                   | 0.279           |
|                       | NR Band n12        | 0.227                     | 0.045                   | 0.272           |
|                       | NR Band n5 (Cell)  | 0.309                     | 0.045                   | 0.354           |
|                       | NR Band n66 (AWS)  | 1.036                     | 0.045                   | <b>1.081</b>    |
|                       | NR Band n25 (PCS)  | 0.755                     | 0.045                   | 0.800           |
|                       | NR Band n41        | 0.102                     | 0.045                   | 0.147           |

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
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| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset | Page 255 of 305                                                                       |                                        |

**Table 12-12**  
**Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN SISO (Body-Worn at 1.5 cm)**

| Exposure Condition | Mode               | 2G/3G/4G/5G SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |       |
|--------------------|--------------------|------------------------|----------------------|-----------------------------|-----------------------------|---------------------|-------|
|                    |                    | 1                      | 2                    | 3                           | 4                           | 1+2+3               | 1+2+4 |
| Body-Worn          | CDMA BC10 (\$90S)  | 0.472                  | 0.045                | 0.502                       | 0.410                       | 1.019               | 0.927 |
|                    | CDMA BC0 (\$22H)   | 0.410                  | 0.045                | 0.502                       | 0.410                       | 0.957               | 0.865 |
|                    | PCS CDMA           | 0.684                  | 0.045                | 0.502                       | 0.410                       | 1.231               | 1.139 |
|                    | GPRS 850           | 0.276                  | 0.045                | 0.502                       | 0.410                       | 0.823               | 0.731 |
|                    | GPRS 1900          | 0.398                  | 0.045                | 0.502                       | 0.410                       | 0.945               | 0.853 |
|                    | UMTS 850           | 0.372                  | 0.045                | 0.502                       | 0.410                       | 0.919               | 0.827 |
|                    | UMTS 1750          | 0.794                  | 0.045                | 0.502                       | 0.410                       | 1.341               | 1.249 |
|                    | UMTS 1900          | 0.769                  | 0.045                | 0.502                       | 0.410                       | 1.316               | 1.224 |
|                    | LTE Band 71        | 0.246                  | 0.045                | 0.502                       | 0.410                       | 0.793               | 0.701 |
|                    | LTE Band 12        | 0.251                  | 0.045                | 0.502                       | 0.410                       | 0.798               | 0.706 |
|                    | LTE Band 13        | 0.384                  | 0.045                | 0.502                       | 0.410                       | 0.931               | 0.839 |
|                    | LTE Band 14        | 0.428                  | 0.045                | 0.502                       | 0.410                       | 0.975               | 0.883 |
|                    | LTE Band 26 (Cell) | 0.335                  | 0.045                | 0.502                       | 0.410                       | 0.882               | 0.790 |
|                    | LTE Band 5 (Cell)  | 0.388                  | 0.045                | 0.502                       | 0.410                       | 0.935               | 0.843 |
|                    | LTE Band 66 (AWS)  | 1.009                  | 0.045                | 0.502                       | 0.410                       | 1.556               | 1.464 |
|                    | LTE Band 25 (PCS)  | 0.830                  | 0.045                | 0.502                       | 0.410                       | 1.377               | 1.285 |
|                    | LTE Band 30        | 0.530                  | 0.045                | 0.502                       | 0.410                       | 1.077               | 0.985 |
|                    | LTE Band 7         | 0.469                  | 0.045                | 0.502                       | 0.410                       | 1.016               | 0.924 |
|                    | LTE Band 48        | 0.357                  | 0.045                | 0.502                       | 0.410                       | 0.904               | 0.812 |
|                    | LTE Band 41        | 0.315                  | 0.045                | 0.502                       | 0.410                       | 0.862               | 0.770 |
|                    | NR Band n71        | 0.234                  | 0.045                | 0.502                       | 0.410                       | 0.781               | 0.689 |
|                    | NR Band n12        | 0.227                  | 0.045                | 0.502                       | 0.410                       | 0.774               | 0.682 |
|                    | NR Band n5 (Cell)  | 0.309                  | 0.045                | 0.502                       | 0.410                       | 0.856               | 0.764 |
|                    | NR Band n66 (AWS)  | 1.036                  | 0.045                | 0.502                       | 0.410                       | <b>1.583</b>        | 1.491 |
|                    | NR Band n25 (PCS)  | 0.755                  | 0.045                | 0.502                       | 0.410                       | 1.302               | 1.210 |
|                    | NR Band n41        | 0.102                  | 0.045                | 0.502                       | 0.410                       | 0.649               | 0.557 |

|                                      |                                                                                                                                                                                                                               |                               |                                                                                       |                                 |
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| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                            | DUT Type:<br>Portable Handset |                                                                                       | Page 256 of 305                 |



**Table 12-13**  
**Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN MIMO (Body-Worn at 1.5 cm)**

| Exposure Condition | Mode               | 2G/3G/4G/5G SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR |      |      |
|--------------------|--------------------|------------------------|----------------------|----------------------------|--------------|-------|------|------|
|                    |                    | 1                      | 2                    | 3                          | 1+2+3        | 1+2   | 1+3  | 2+3  |
| Body-Worn          | CDMA BC10 (\$90S)  | 0.472                  | 0.045                | 0.865                      | 1.382        | N/A   | N/A  | N/A  |
|                    | CDMA BC0 (\$22H)   | 0.410                  | 0.045                | 0.865                      | 1.320        | N/A   | N/A  | N/A  |
|                    | PCS CDMA           | 0.684                  | 0.045                | 0.865                      | 1.594        | N/A   | N/A  | N/A  |
|                    | GPRS 850           | 0.276                  | 0.045                | 0.865                      | 1.186        | N/A   | N/A  | N/A  |
|                    | GPRS 1900          | 0.398                  | 0.045                | 0.865                      | 1.308        | N/A   | N/A  | N/A  |
|                    | UMTS 850           | 0.372                  | 0.045                | 0.865                      | 1.282        | N/A   | N/A  | N/A  |
|                    | UMTS 1750          | 0.794                  | 0.045                | 0.865                      | See Note 1   | 0.00  | 0.01 | 0.02 |
|                    | UMTS 1900          | 0.769                  | 0.045                | 0.865                      | See Note 1   | 0.00  | 0.01 | 0.02 |
|                    | LTE Band 71        | 0.246                  | 0.045                | 0.865                      | 1.156        | N/A   | N/A  | N/A  |
|                    | LTE Band 12        | 0.251                  | 0.045                | 0.865                      | 1.161        | N/A   | N/A  | N/A  |
|                    | LTE Band 13        | 0.384                  | 0.045                | 0.865                      | 1.294        | N/A   | N/A  | N/A  |
|                    | LTE Band 14        | 0.428                  | 0.045                | 0.865                      | 1.338        | N/A   | N/A  | N/A  |
|                    | LTE Band 26 (Cell) | 0.335                  | 0.045                | 0.865                      | 1.245        | N/A   | N/A  | N/A  |
|                    | LTE Band 5 (Cell)  | 0.388                  | 0.045                | 0.865                      | 1.298        | N/A   | N/A  | N/A  |
|                    | LTE Band 66 (AWS)  | 1.009                  | 0.045                | 0.865                      | See Note 1   | 0.01  | 0.02 | 0.02 |
|                    | LTE Band 25 (PCS)  | 0.830                  | 0.045                | 0.865                      | See Note 1   | 0.00  | 0.01 | 0.02 |
|                    | LTE Band 30        | 0.530                  | 0.045                | 0.865                      | 1.440        | N/A   | N/A  | N/A  |
|                    | LTE Band 7         | 0.469                  | 0.045                | 0.865                      | 1.379        | N/A   | N/A  | N/A  |
|                    | LTE Band 48        | 0.357                  | 0.045                | 0.865                      | 1.267        | N/A   | N/A  | N/A  |
|                    | LTE Band 41        | 0.315                  | 0.045                | 0.865                      | 1.225        | N/A   | N/A  | N/A  |
|                    | NR Band n71        | 0.234                  | 0.045                | 0.865                      | 1.144        | N/A   | N/A  | N/A  |
|                    | NR Band n12        | 0.227                  | 0.045                | 0.865                      | 1.137        | N/A   | N/A  | N/A  |
|                    | NR Band n5 (Cell)  | 0.309                  | 0.045                | 0.865                      | 1.219        | N/A   | N/A  | N/A  |
|                    | NR Band n66 (AWS)  | 1.036                  | 0.045                | 0.865                      | See Note 1   | 0.01  | 0.02 | 0.02 |
|                    | NR Band n25 (PCS)  | 0.755                  | 0.045                | 0.865                      | See Note 1   | 0.00  | 0.01 | 0.02 |
|                    | NR Band n41        | 0.102                  | 0.045                | 0.865                      | 1.012        | N/A   | N/A  | N/A  |

Note 1 - No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. See Section 12.7 for detailed SPLS ratio analysis.

|                                      |                                                                                                                                                                                                                               |                               |                                                                                       |                                 |
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| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                            | DUT Type:<br>Portable Handset |                                                                                       | Page 257 of 305                 |

## 12.5 Hotspot SAR Simultaneous Transmission Analysis

**Table 12-14**  
**Simultaneous Transmission Scenario with 2.4 GHz WLAN (Hotspot at 1.0 cm)**

| Exposure Condition | Mode               | 2G/3G/4G/5G SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |       |                 |
|--------------------|--------------------|------------------------|-------------------------------|-------------------------------|---------------------|-------|-----------------|
|                    |                    | 1                      | 2                             | 3                             | 1+2                 | 1+3   | 1+2+3           |
| Hotspot SAR        | EVDO BC10 (§90S)   | 1.160                  | 0.489                         | 0.130                         | See Table Below     | 1.290 | See Table Below |
|                    | EVDO BC0 (§22H)    | 0.889                  | 0.489                         | 0.130                         | 1.378               | 1.019 | 1.508           |
|                    | PCS EVDO           | 1.097                  | 0.489                         | 0.130                         | <b>1.586</b>        | 1.227 | See Table Below |
|                    | GPRS 850           | 0.856                  | 0.489                         | 0.130                         | 1.345               | 0.986 | 1.475           |
|                    | GPRS 1900          | 0.813                  | 0.489                         | 0.130                         | 1.302               | 0.943 | 1.432           |
|                    | UMTS 850           | 0.721                  | 0.489                         | 0.130                         | 1.210               | 0.851 | 1.340           |
|                    | UMTS 1750          | 1.180                  | 0.489                         | 0.130                         | See Table Below     | 1.310 | See Table Below |
|                    | UMTS 1900          | 1.097                  | 0.489                         | 0.130                         | <b>1.586</b>        | 1.227 | See Table Below |
|                    | LTE Band 71        | 0.385                  | 0.489                         | 0.130                         | 0.874               | 0.515 | 1.004           |
|                    | LTE Band 12        | 0.420                  | 0.489                         | 0.130                         | 0.909               | 0.550 | 1.039           |
|                    | LTE Band 13        | 0.743                  | 0.489                         | 0.130                         | 1.232               | 0.873 | 1.362           |
|                    | LTE Band 14        | 0.681                  | 0.489                         | 0.130                         | 1.170               | 0.811 | 1.300           |
|                    | LTE Band 26 (Cell) | 0.693                  | 0.489                         | 0.130                         | 1.182               | 0.823 | 1.312           |
|                    | LTE Band 5 (Cell)  | 0.680                  | 0.489                         | 0.130                         | 1.169               | 0.810 | 1.299           |
|                    | LTE Band 66 (AWS)  | 1.131                  | 0.489                         | 0.130                         | See Table Below     | 1.261 | See Table Below |
|                    | LTE Band 25 (PCS)  | 1.165                  | 0.489                         | 0.130                         | See Table Below     | 1.295 | See Table Below |
|                    | LTE Band 30        | 1.037                  | 0.489                         | 0.130                         | 1.526               | 1.167 | See Table Below |
|                    | LTE Band 7         | 0.569                  | 0.489                         | 0.130                         | 1.058               | 0.699 | 1.188           |
|                    | LTE Band 48        | 0.852                  | 0.489                         | 0.130                         | 1.341               | 0.982 | 1.471           |
|                    | LTE Band 41        | 0.467                  | 0.489                         | 0.130                         | 0.956               | 0.597 | 1.086           |
|                    | NR Band n71        | 0.366                  | 0.489                         | 0.130                         | 0.855               | 0.496 | 0.985           |
|                    | NR Band n12        | 0.401                  | 0.489                         | 0.130                         | 0.890               | 0.531 | 1.020           |
|                    | NR Band n5 (Cell)  | 0.676                  | 0.489                         | 0.130                         | 1.165               | 0.806 | 1.295           |
|                    | NR Band n66 (AWS)  | 1.162                  | 0.489                         | 0.130                         | See Table Below     | 1.292 | See Table Below |
|                    | NR Band n25 (PCS)  | 1.166                  | 0.489                         | 0.130                         | See Table Below     | 1.296 | See Table Below |
|                    | NR Band n41        | 0.527                  | 0.489                         | 0.130                         | 1.016               | 0.657 | 1.146           |

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
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| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 258 of 305                                                                       |                                        |

| Simult Tx   | Configuration | EVDO BC10 (\$90S) SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |              |              |
|-------------|---------------|------------------------------|-------------------------------|-------------------------------|---------------------|--------------|--------------|
|             |               | 1                            | 2                             | 3                             | 1+2                 | 1+3          | 1+2+3        |
| Hotspot SAR | Back          | 1.160                        | 0.207                         | 0.130                         | 1.367               | 1.290        | <b>1.497</b> |
|             | Front         | 0.768                        | 0.489*                        | 0.130*                        | 1.257               | 0.898        | 1.387        |
|             | Top           | -                            | 0.489                         | 0.130*                        | 0.489               | 0.130        | 0.619        |
|             | Bottom        | 0.581                        | -                             | -                             | 0.581               | 0.581        | 0.581        |
|             | Right         | 0.087                        | -                             | -                             | 0.087               | 0.087        | 0.087        |
|             | Left          | 0.328                        | 0.050                         | 0.130*                        | 0.378               | 0.458        | 0.508        |
| Simult Tx   | Configuration | UMTS 1750 SAR (W/kg)         | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |              |              |
|             |               | 1                            | 2                             | 3                             | 1+2                 | 1+3          | 1+2+3        |
| Hotspot SAR | Back          | 0.357                        | 0.207                         | 0.130                         | 0.564               | 0.487        | 0.694        |
|             | Front         | 0.286                        | 0.489*                        | 0.130*                        | 0.775               | 0.416        | 0.905        |
|             | Top           | -                            | 0.489                         | 0.130*                        | 0.489               | 0.130        | 0.619        |
|             | Bottom        | 1.180                        | -                             | -                             | <b>1.180</b>        | <b>1.180</b> | <b>1.180</b> |
|             | Right         | 0.058                        | -                             | -                             | 0.058               | 0.058        | 0.058        |
|             | Left          | 0.055                        | 0.050                         | 0.130*                        | 0.105               | 0.185        | 0.235        |
| Simult Tx   | Configuration | UMTS 1900 SAR (W/kg)         | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |              |              |
|             |               | 1                            | 2                             | 3                             | 1+2                 | 1+3          | 1+2+3        |
| Hotspot SAR | Back          | 0.506                        | 0.207                         | 0.130                         | 0.713               | 0.636        | 0.843        |
|             | Front         | 0.342                        | 0.489*                        | 0.130*                        | 0.831               | 0.472        | 0.961        |
|             | Top           | -                            | 0.489                         | 0.130*                        | 0.489               | 0.130        | 0.619        |
|             | Bottom        | 1.097                        | -                             | -                             | <b>1.097</b>        | <b>1.097</b> | <b>1.097</b> |
|             | Right         | 0.051                        | -                             | -                             | 0.051               | 0.051        | 0.051        |
|             | Left          | 0.055                        | 0.050                         | 0.130*                        | 0.105               | 0.185        | 0.235        |
| Simult Tx   | Configuration | LTE Band 66 (AWS) SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |              |              |
|             |               | 1                            | 2                             | 3                             | 1+2                 | 1+3          | 1+2+3        |
| Hotspot SAR | Back          | 0.570                        | 0.207                         | 0.130                         | 0.777               | 0.700        | 0.907        |
|             | Front         | 0.406                        | 0.489*                        | 0.130*                        | 0.895               | 0.536        | 1.025        |
|             | Top           | -                            | 0.489                         | 0.130*                        | 0.489               | 0.130        | 0.619        |
|             | Bottom        | 1.131                        | -                             | -                             | <b>1.131</b>        | <b>1.131</b> | <b>1.131</b> |
|             | Right         | 0.081                        | -                             | -                             | 0.081               | 0.081        | 0.081        |
|             | Left          | 0.071                        | 0.050                         | 0.130*                        | 0.121               | 0.201        | 0.251        |
| Simult Tx   | Configuration | LTE Band 25 (PCS) SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |              |              |
|             |               | 1                            | 2                             | 3                             | 1+2                 | 1+3          | 1+2+3        |
| Hotspot SAR | Back          | 0.591                        | 0.207                         | 0.130                         | 0.798               | 0.721        | 0.928        |
|             | Front         | 0.417                        | 0.489*                        | 0.130*                        | 0.906               | 0.547        | 1.036        |
|             | Top           | -                            | 0.489                         | 0.130*                        | 0.489               | 0.130        | 0.619        |
|             | Bottom        | 1.165                        | -                             | -                             | <b>1.165</b>        | <b>1.165</b> | <b>1.165</b> |
|             | Right         | 0.066                        | -                             | -                             | 0.066               | 0.066        | 0.066        |
|             | Left          | 0.056                        | 0.050                         | 0.130*                        | 0.106               | 0.186        | 0.236        |
| Simult Tx   | Configuration | NR Band n66 (AWS) SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |              |              |
|             |               | 1                            | 2                             | 3                             | 1+2                 | 1+3          | 1+2+3        |
| Hotspot SAR | Back          | 0.735                        | 0.207                         | 0.130                         | 0.942               | 0.865        | 1.072        |
|             | Front         | 0.403                        | 0.489*                        | 0.130*                        | 0.892               | 0.533        | 1.022        |
|             | Top           | -                            | 0.489                         | 0.130*                        | 0.489               | 0.130        | 0.619        |
|             | Bottom        | 1.162                        | -                             | -                             | <b>1.162</b>        | <b>1.162</b> | <b>1.162</b> |
|             | Right         | 0.086                        | -                             | -                             | 0.086               | 0.086        | 0.086        |
|             | Left          | 0.072                        | 0.050                         | 0.130*                        | 0.122               | 0.202        | 0.252        |
| Simult Tx   | Configuration | NR Band n25 (PCS) SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |              |              |
|             |               | 1                            | 2                             | 3                             | 1+2                 | 1+3          | 1+2+3        |
| Hotspot SAR | Back          | 0.558                        | 0.207                         | 0.130                         | 0.765               | 0.688        | 0.895        |
|             | Front         | 0.385                        | 0.489*                        | 0.130*                        | 0.874               | 0.515        | 1.004        |
|             | Top           | -                            | 0.489                         | 0.130*                        | 0.489               | 0.130        | 0.619        |
|             | Bottom        | 1.166                        | -                             | -                             | <b>1.166</b>        | <b>1.166</b> | <b>1.166</b> |
|             | Right         | 0.052                        | -                             | -                             | 0.052               | 0.052        | 0.052        |
|             | Left          | 0.047                        | 0.050                         | 0.130*                        | 0.097               | 0.177        | 0.227        |

|                                      |                                                                                                                                                                                                                |                               |                                        |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                             | DUT Type:<br>Portable Handset | Page 259 of 305                        |

**Table 12-15**  
**Simultaneous Transmission Scenario with 5 GHz WLAN SISO (Hotspot at 1.0 cm)**

| Exposure Condition | Mode               | 2G/3G/4G/5G SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |                 |
|--------------------|--------------------|------------------------|-----------------------------|-----------------------------|---------------------|-----------------|
|                    |                    | 1                      | 2                           | 3                           | 1+2                 | 1+3             |
| Hotspot SAR        | EVDO BC10 (\$90S)  | 1.160                  | 0.589                       | 0.590                       | See Table Below     | See Table Below |
|                    | EVDO BC0 (\$22H)   | 0.889                  | 0.589                       | 0.590                       | 1.478               | <b>1.479</b>    |
|                    | PCS EVDO           | 1.097                  | 0.589                       | 0.590                       | See Table Below     | See Table Below |
|                    | GPRS 850           | 0.856                  | 0.589                       | 0.590                       | 1.445               | 1.446           |
|                    | GPRS 1900          | 0.813                  | 0.589                       | 0.590                       | 1.402               | 1.403           |
|                    | UMTS 850           | 0.721                  | 0.589                       | 0.590                       | 1.310               | 1.311           |
|                    | UMTS 1750          | 1.180                  | 0.589                       | 0.590                       | See Table Below     | See Table Below |
|                    | UMTS 1900          | 1.097                  | 0.589                       | 0.590                       | See Table Below     | See Table Below |
|                    | LTE Band 71        | 0.385                  | 0.589                       | 0.590                       | 0.974               | 0.975           |
|                    | LTE Band 12        | 0.420                  | 0.589                       | 0.590                       | 1.009               | 1.010           |
|                    | LTE Band 13        | 0.743                  | 0.589                       | 0.590                       | 1.332               | 1.333           |
|                    | LTE Band 14        | 0.681                  | 0.589                       | 0.590                       | 1.270               | 1.271           |
|                    | LTE Band 26 (Cell) | 0.693                  | 0.589                       | 0.590                       | 1.282               | 1.283           |
|                    | LTE Band 5 (Cell)  | 0.680                  | 0.589                       | 0.590                       | 1.269               | 1.270           |
|                    | LTE Band 66 (AWS)  | 1.131                  | 0.589                       | 0.590                       | See Table Below     | See Table Below |
|                    | LTE Band 25 (PCS)  | 1.165                  | 0.589                       | 0.590                       | See Table Below     | See Table Below |
|                    | LTE Band 30        | 1.037                  | 0.589                       | 0.590                       | See Table Below     | See Table Below |
|                    | LTE Band 7         | 0.569                  | 0.589                       | 0.590                       | 1.158               | 1.159           |
|                    | LTE Band 48        | 0.852                  | 0.589                       | 0.590                       | 1.441               | 1.442           |
|                    | LTE Band 41        | 0.467                  | 0.589                       | 0.590                       | 1.056               | 1.057           |
|                    | NR Band n71        | 0.366                  | 0.589                       | 0.590                       | 0.955               | 0.956           |
|                    | NR Band n12        | 0.401                  | 0.589                       | 0.590                       | 0.990               | 0.991           |
|                    | NR Band n5 (Cell)  | 0.676                  | 0.589                       | 0.590                       | 1.265               | 1.266           |
|                    | NR Band n66 (AWS)  | 1.162                  | 0.589                       | 0.590                       | See Table Below     | See Table Below |
|                    | NR Band n25 (PCS)  | 1.166                  | 0.589                       | 0.590                       | See Table Below     | See Table Below |
|                    | NR Band n41        | 0.527                  | 0.589                       | 0.590                       | 1.116               | 1.117           |

| Simult Tx   | Configuration | EVDO BC10 (\$90S) SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |              | SPLSR |      |
|-------------|---------------|------------------------------|-----------------------------|-----------------------------|---------------------|--------------|-------|------|
|             |               | 1                            | 2                           | 3                           | 1+2                 | 1+3          | 1+2   | 1+3  |
| Hotspot SAR | Back          | 1.160                        | 0.589                       | 0.590                       | See Note 1          | See Note 1   | 0.01  | 0.01 |
|             | Front         | 0.768                        | 0.589*                      | 0.590*                      | 1.357               | <b>1.358</b> | N/A   | N/A  |
|             | Top           | -                            | 0.055                       | 0.070                       | 0.055               | 0.070        | N/A   | N/A  |
|             | Bottom        | 0.581                        | -                           | -                           | 0.581               | 0.581        | N/A   | N/A  |
|             | Right         | 0.087                        | -                           | -                           | 0.087               | 0.087        | N/A   | N/A  |
|             | Left          | 0.328                        | 0.122                       | 0.188                       | 0.450               | 0.516        | N/A   | N/A  |

|                                      |                                                                                                                                                        |                               |                                                                                       |                                 |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                     | DUT Type:<br>Portable Handset |                                                                                       | Page 260 of 305                 |

| Simult Tx      | Configuration | PCS EVDO<br>SAR (W/kg)             | 5 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | $\Sigma$ SAR (W/kg) |              | Simult Tx      | Configuration | UMTS 1750<br>SAR (W/kg)            | 5 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | $\Sigma$ SAR (W/kg) |              |
|----------------|---------------|------------------------------------|--------------------------------------|--------------------------------------|---------------------|--------------|----------------|---------------|------------------------------------|--------------------------------------|--------------------------------------|---------------------|--------------|
|                |               | 1                                  | 2                                    | 3                                    | 1+2                 | 1+3          |                |               | 1                                  | 2                                    | 3                                    | 1+2                 | 1+3          |
| Hotspot<br>SAR | Back          | 0.572                              | 0.589                                | 0.590                                | 1.161               | <b>1.162</b> | Hotspot<br>SAR | Back          | 0.357                              | 0.589                                | 0.590                                | 0.946               | 0.947        |
|                | Front         | 0.388                              | 0.589*                               | 0.590*                               | 0.977               | 0.978        |                | Front         | 0.286                              | 0.589*                               | 0.590*                               | 0.875               | 0.876        |
|                | Top           | -                                  | 0.055                                | 0.070                                | 0.055               | 0.070        |                | Top           | -                                  | 0.055                                | 0.070                                | 0.055               | 0.070        |
|                | Bottom        | 1.097                              | -                                    | -                                    | 1.097               | 1.097        |                | Bottom        | 1.180                              | -                                    | -                                    | <b>1.180</b>        | <b>1.180</b> |
|                | Right         | 0.071                              | -                                    | -                                    | 0.071               | 0.071        |                | Right         | 0.058                              | -                                    | -                                    | 0.058               | 0.058        |
|                | Left          | 0.054                              | 0.122                                | 0.188                                | 0.176               | 0.242        |                | Left          | 0.055                              | 0.122                                | 0.188                                | 0.177               | 0.243        |
| Simult Tx      | Configuration | UMTS 1900<br>SAR (W/kg)            | 5 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | $\Sigma$ SAR (W/kg) |              | Simult Tx      | Configuration | LTE Band<br>66 (AWS)<br>SAR (W/kg) | 5 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | $\Sigma$ SAR (W/kg) |              |
|                |               | 1                                  | 2                                    | 3                                    | 1+2                 | 1+3          |                |               | 1                                  | 2                                    | 3                                    | 1+2                 | 1+3          |
| Hotspot<br>SAR | Back          | 0.506                              | 0.589                                | 0.590                                | 1.095               | 1.096        | Hotspot<br>SAR | Back          | 0.570                              | 0.589                                | 0.590                                | 1.159               | <b>1.160</b> |
|                | Front         | 0.342                              | 0.589*                               | 0.590*                               | 0.931               | 0.932        |                | Front         | 0.406                              | 0.589*                               | 0.590*                               | 0.995               | 0.996        |
|                | Top           | -                                  | 0.055                                | 0.070                                | 0.055               | 0.070        |                | Top           | -                                  | 0.055                                | 0.070                                | 0.055               | 0.070        |
|                | Bottom        | 1.097                              | -                                    | -                                    | <b>1.097</b>        | <b>1.097</b> |                | Bottom        | 1.131                              | -                                    | -                                    | 1.131               | 1.131        |
|                | Right         | 0.051                              | -                                    | -                                    | 0.051               | 0.051        |                | Right         | 0.081                              | -                                    | -                                    | 0.081               | 0.081        |
|                | Left          | 0.055                              | 0.122                                | 0.188                                | 0.177               | 0.243        |                | Left          | 0.071                              | 0.122                                | 0.188                                | 0.193               | 0.259        |
| Simult Tx      | Configuration | LTE Band<br>25 (PCS)<br>SAR (W/kg) | 5 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | $\Sigma$ SAR (W/kg) |              | Simult Tx      | Configuration | LTE Band<br>30 SAR<br>(W/kg)       | 5 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | $\Sigma$ SAR (W/kg) |              |
|                |               | 1                                  | 2                                    | 3                                    | 1+2                 | 1+3          |                |               | 1                                  | 2                                    | 3                                    | 1+2                 | 1+3          |
| Hotspot<br>SAR | Back          | 0.591                              | 0.589                                | 0.590                                | 1.180               | <b>1.181</b> | Hotspot<br>SAR | Back          | 0.450                              | 0.589                                | 0.590                                | 1.039               | <b>1.040</b> |
|                | Front         | 0.417                              | 0.589*                               | 0.590*                               | 1.006               | 1.007        |                | Front         | 0.356                              | 0.589*                               | 0.590*                               | 0.945               | 0.946        |
|                | Top           | -                                  | 0.055                                | 0.070                                | 0.055               | 0.070        |                | Top           | -                                  | 0.055                                | 0.070                                | 0.055               | 0.070        |
|                | Bottom        | 1.165                              | -                                    | -                                    | 1.165               | 1.165        |                | Bottom        | 1.037                              | -                                    | -                                    | 1.037               | 1.037        |
|                | Right         | 0.066                              | -                                    | -                                    | 0.066               | 0.066        |                | Right         | 0.080                              | -                                    | -                                    | 0.080               | 0.080        |
|                | Left          | 0.056                              | 0.122                                | 0.188                                | 0.178               | 0.244        |                | Left          | 0.033                              | 0.122                                | 0.188                                | 0.155               | 0.221        |
| Simult Tx      | Configuration | NR Band<br>n66 (AWS)<br>SAR (W/kg) | 5 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | $\Sigma$ SAR (W/kg) |              | Simult Tx      | Configuration | NR Band<br>n25 (PCS)<br>SAR (W/kg) | 5 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | $\Sigma$ SAR (W/kg) |              |
|                |               | 1                                  | 2                                    | 3                                    | 1+2                 | 1+3          |                |               | 1                                  | 2                                    | 3                                    | 1+2                 | 1+3          |
| Hotspot<br>SAR | Back          | 0.735                              | 0.589                                | 0.590                                | 1.324               | <b>1.325</b> | Hotspot<br>SAR | Back          | 0.558                              | 0.589                                | 0.590                                | 1.147               | 1.148        |
|                | Front         | 0.403                              | 0.589*                               | 0.590*                               | 0.992               | 0.993        |                | Front         | 0.385                              | 0.589*                               | 0.590*                               | 0.974               | 0.975        |
|                | Top           | -                                  | 0.055                                | 0.070                                | 0.055               | 0.070        |                | Top           | -                                  | 0.055                                | 0.070                                | 0.055               | 0.070        |
|                | Bottom        | 1.162                              | -                                    | -                                    | 1.162               | 1.162        |                | Bottom        | 1.166                              | -                                    | -                                    | <b>1.166</b>        | <b>1.166</b> |
|                | Right         | 0.086                              | -                                    | -                                    | 0.086               | 0.086        |                | Right         | 0.052                              | -                                    | -                                    | 0.052               | 0.052        |
|                | Left          | 0.072                              | 0.122                                | 0.188                                | 0.194               | 0.260        |                | Left          | 0.047                              | 0.122                                | 0.188                                | 0.169               | 0.235        |

Note 1 - No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. See Section 12.7 for detailed SPLS ratio analysis.

|                                      |                                                                                                                                                                                                                |                               |                                        |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                             | DUT Type:<br>Portable Handset | Page 261 of 305                        |

**Table 12-16**  
**Simultaneous Transmission Scenario with 5 GHz WLAN MIMO (Hotspot at 1.0 cm)**

| Simult Tx   | Configuration | EVDO BC10 (\$90S) SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR | Simult Tx   | Configuration | EVDO BC0 (\$22H) SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR |
|-------------|---------------|------------------------------|----------------------------|--------------|-------|-------------|---------------|-----------------------------|----------------------------|--------------|-------|
|             |               | 1                            | 2                          | 1+2          | 1+2   |             |               | 1                           | 2                          | 1+2          | 1+2   |
| Hotspot SAR | Back          | 1.160                        | 0.933                      | See Note 1   | 0.02  | Hotspot SAR | Back          | 0.889                       | 0.933                      | See Note 1   | 0.02  |
|             | Front         | 0.768                        | 0.027                      | <b>0.795</b> | N/A   |             | Front         | 0.638                       | 0.027                      | <b>0.665</b> | N/A   |
|             | Top           | -                            | 0.094                      | 0.094        | N/A   |             | Top           | -                           | 0.094                      | 0.094        | N/A   |
|             | Bottom        | 0.581                        | -                          | 0.581        | N/A   |             | Bottom        | 0.508                       | -                          | 0.508        | N/A   |
|             | Right         | 0.087                        | -                          | 0.087        | N/A   |             | Right         | 0.062                       | -                          | 0.062        | N/A   |
|             | Left          | 0.328                        | 0.303                      | 0.631        | N/A   |             | Left          | 0.293                       | 0.303                      | 0.596        | N/A   |

| Simult Tx   | Configuration | PCS EVDO SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | Simult Tx   | Configuration | GPRS 850 SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR |
|-------------|---------------|---------------------|----------------------------|--------------|-------------|---------------|---------------------|----------------------------|--------------|-------|
|             |               | 1                   | 2                          | 1+2          |             |               | 1                   | 2                          | 1+2          | 1+2   |
| Hotspot SAR | Back          | 0.572               | 0.933                      | <b>1.505</b> | Hotspot SAR | Back          | 0.856               | 0.933                      | See Note 1   | 0.02  |
|             | Front         | 0.388               | 0.027                      | 0.415        |             | Front         | 0.378               | 0.027                      | 0.405        | N/A   |
|             | Top           | -                   | 0.094                      | 0.094        |             | Top           | -                   | 0.094                      | 0.094        | N/A   |
|             | Bottom        | 1.097               | -                          | 1.097        |             | Bottom        | 0.291               | -                          | 0.291        | N/A   |
|             | Right         | 0.071               | -                          | 0.071        |             | Right         | 0.042               | -                          | 0.042        | N/A   |
|             | Left          | 0.054               | 0.303                      | 0.357        |             | Left          | 0.172               | 0.303                      | <b>0.475</b> | N/A   |

| Simult Tx   | Configuration | GPRS 1900 SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | Simult Tx   | Configuration | UMTS 850 SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR |
|-------------|---------------|----------------------|----------------------------|--------------|-------------|---------------|---------------------|----------------------------|--------------|-------|
|             |               | 1                    | 2                          | 1+2          |             |               | 1                   | 2                          | 1+2          | 1+2   |
| Hotspot SAR | Back          | 0.370                | 0.933                      | <b>1.303</b> | Hotspot SAR | Back          | 0.721               | 0.933                      | See Note 1   | 0.01  |
|             | Front         | 0.300                | 0.027                      | 0.327        |             | Front         | 0.498               | 0.027                      | 0.525        | N/A   |
|             | Top           | -                    | 0.094                      | 0.094        |             | Top           | -                   | 0.094                      | 0.094        | N/A   |
|             | Bottom        | 0.813                | -                          | 0.813        |             | Bottom        | 0.405               | -                          | 0.405        | N/A   |
|             | Right         | 0.043                | -                          | 0.043        |             | Right         | 0.048               | -                          | 0.048        | N/A   |
|             | Left          | 0.042                | 0.303                      | 0.345        |             | Left          | 0.236               | 0.303                      | <b>0.539</b> | N/A   |

| Simult Tx   | Configuration | UMTS 1750 SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | Simult Tx   | Configuration | UMTS 1900 SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) |
|-------------|---------------|----------------------|----------------------------|--------------|-------------|---------------|----------------------|----------------------------|--------------|
|             |               | 1                    | 2                          | 1+2          |             |               | 1                    | 2                          | 1+2          |
| Hotspot SAR | Back          | 0.357                | 0.933                      | <b>1.290</b> | Hotspot SAR | Back          | 0.506                | 0.933                      | <b>1.439</b> |
|             | Front         | 0.286                | 0.027                      | 0.313        |             | Front         | 0.342                | 0.027                      | 0.369        |
|             | Top           | -                    | 0.094                      | 0.094        |             | Top           | -                    | 0.094                      | 0.094        |
|             | Bottom        | 1.180                | -                          | 1.180        |             | Bottom        | 1.097                | -                          | 1.097        |
|             | Right         | 0.058                | -                          | 0.058        |             | Right         | 0.051                | -                          | 0.051        |
|             | Left          | 0.055                | 0.303                      | 0.358        |             | Left          | 0.055                | 0.303                      | 0.358        |

| Simult Tx   | Configuration | LTE Band 71 SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | Simult Tx   | Configuration | LTE Band 12 SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) |
|-------------|---------------|------------------------|----------------------------|--------------|-------------|---------------|------------------------|----------------------------|--------------|
|             |               | 1                      | 2                          | 1+2          |             |               | 1                      | 2                          | 1+2          |
| Hotspot SAR | Back          | 0.385                  | 0.933                      | <b>1.318</b> | Hotspot SAR | Back          | 0.420                  | 0.933                      | <b>1.353</b> |
|             | Front         | 0.236                  | 0.027                      | 0.263        |             | Front         | 0.259                  | 0.027                      | 0.286        |
|             | Top           | -                      | 0.094                      | 0.094        |             | Top           | -                      | 0.094                      | 0.094        |
|             | Bottom        | 0.200                  | -                          | 0.200        |             | Bottom        | 0.215                  | -                          | 0.215        |
|             | Right         | 0.157                  | -                          | 0.157        |             | Right         | 0.165                  | -                          | 0.165        |
|             | Left          | 0.299                  | 0.303                      | 0.602        |             | Left          | 0.306                  | 0.303                      | 0.609        |

|                                      |                                                                                                                                                                                                                                                                                              |                               |                                 |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   | <div><b>PCTEST</b><br/><small>Proud to be part of SAMSUNG</small></div> <div>SAR EVALUATION REPORT</div> <div></div> |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 262 of 305                 |

| Simult Tx   | Configuration | LTE Band 13 SAR (W/kg)        | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR       | Simult Tx     | Configuration                | LTE Band 14 SAR (W/kg)       | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR |
|-------------|---------------|-------------------------------|----------------------------|--------------|-------------|---------------|------------------------------|------------------------------|----------------------------|--------------|-------|
|             |               | 1                             | 2                          | 1+2          |             |               |                              | 1+2                          |                            |              |       |
| Hotspot SAR | Back          | 0.743                         | 0.933                      | See Note 1   | 0.01        | Hotspot SAR   | Back                         | 0.681                        | 0.933                      | See Note 1   | 0.01  |
|             | Front         | 0.552                         | 0.027                      | 0.579        | N/A         |               | Front                        | 0.546                        | 0.027                      | 0.573        | N/A   |
|             | Top           | -                             | 0.094                      | 0.094        | N/A         |               | Top                          | -                            | 0.094                      | 0.094        | N/A   |
|             | Bottom        | 0.432                         | -                          | 0.432        | N/A         |               | Bottom                       | 0.438                        | -                          | 0.438        | N/A   |
|             | Right         | 0.101                         | -                          | 0.101        | N/A         |               | Right                        | 0.104                        | -                          | 0.104        | N/A   |
|             | Left          | 0.323                         | 0.303                      | <b>0.626</b> | N/A         |               | Left                         | 0.365                        | 0.303                      | <b>0.668</b> | N/A   |
| Simult Tx   | Configuration | LTE Band 26 (Cell) SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR       | Simult Tx     | Configuration                | LTE Band 5 (Cell) SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR |
|             |               | 1                             | 2                          | 1+2          |             |               |                              | 1+2                          |                            |              |       |
| Hotspot SAR | Back          | 0.693                         | 0.933                      | See Note 1   | 0.01        | Hotspot SAR   | Back                         | 0.680                        | 0.933                      | See Note 1   | 0.01  |
|             | Front         | 0.493                         | 0.027                      | 0.520        | N/A         |               | Front                        | 0.505                        | 0.027                      | 0.532        | N/A   |
|             | Top           | -                             | 0.094                      | 0.094        | N/A         |               | Top                          | -                            | 0.094                      | 0.094        | N/A   |
|             | Bottom        | 0.361                         | -                          | 0.361        | N/A         |               | Bottom                       | 0.381                        | -                          | 0.381        | N/A   |
|             | Right         | 0.073                         | -                          | 0.073        | N/A         |               | Right                        | 0.066                        | -                          | 0.066        | N/A   |
|             | Left          | 0.257                         | 0.303                      | <b>0.560</b> | N/A         |               | Left                         | 0.246                        | 0.303                      | <b>0.549</b> | N/A   |
| Simult Tx   | Configuration | LTE Band 66 (AWS) SAR (W/kg)  | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | Simult Tx   | Configuration | LTE Band 25 (PCS) SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg)   | Σ SAR (W/kg)               |              |       |
|             |               | 1                             | 2                          | 1+2          |             |               | 1                            | 2                            | 1+2                        |              |       |
| Hotspot SAR | Back          | 0.570                         | 0.933                      | <b>1.503</b> | Hotspot SAR | Back          | 0.591                        | 0.933                        | <b>1.524</b>               |              |       |
|             | Front         | 0.406                         | 0.027                      | 0.433        |             | Front         | 0.417                        | 0.027                        | 0.444                      |              |       |
|             | Top           | -                             | 0.094                      | 0.094        |             | Top           | -                            | 0.094                        | 0.094                      |              |       |
|             | Bottom        | 1.131                         | -                          | 1.131        |             | Bottom        | 1.165                        | -                            | 1.165                      |              |       |
|             | Right         | 0.081                         | -                          | 0.081        |             | Right         | 0.066                        | -                            | 0.066                      |              |       |
|             | Left          | 0.071                         | 0.303                      | 0.374        |             | Left          | 0.056                        | 0.303                        | 0.359                      |              |       |
| Simult Tx   | Configuration | LTE Band 30 SAR (W/kg)        | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | Simult Tx   | Configuration | LTE Band 7 SAR (W/kg)        | 5 GHz WLAN MIMO SAR (W/kg)   | Σ SAR (W/kg)               |              |       |
|             |               | 1                             | 2                          | 1+2          |             |               | 1                            | 2                            | 1+2                        |              |       |
| Hotspot SAR | Back          | 0.450                         | 0.933                      | <b>1.383</b> | Hotspot SAR | Back          | 0.284                        | 0.933                        | <b>1.217</b>               |              |       |
|             | Front         | 0.356                         | 0.027                      | 0.383        |             | Front         | 0.223                        | 0.027                        | 0.250                      |              |       |
|             | Top           | -                             | 0.094                      | 0.094        |             | Top           | -                            | 0.094                        | 0.094                      |              |       |
|             | Bottom        | 1.037                         | -                          | 1.037        |             | Bottom        | 0.569                        | -                            | 0.569                      |              |       |
|             | Right         | 0.080                         | -                          | 0.080        |             | Right         | 0.144                        | -                            | 0.144                      |              |       |
|             | Left          | 0.033                         | 0.303                      | 0.336        |             | Left          | -                            | 0.303                        | 0.303                      |              |       |
| Simult Tx   | Configuration | LTE Band 48 SAR (W/kg)        | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | Simult Tx   | Configuration | LTE Band 41 SAR (W/kg)       | 5 GHz WLAN MIMO SAR (W/kg)   | Σ SAR (W/kg)               |              |       |
|             |               | 1                             | 2                          | 1+2          |             |               | 1                            | 2                            | 1+2                        |              |       |
| Hotspot SAR | Back          | 0.466                         | 0.933                      | <b>1.399</b> | Hotspot SAR | Back          | 0.203                        | 0.933                        | <b>1.136</b>               |              |       |
|             | Front         | 0.143                         | 0.027                      | 0.170        |             | Front         | 0.164                        | 0.027                        | 0.191                      |              |       |
|             | Top           | 0.852                         | 0.094                      | 0.946        |             | Top           | -                            | 0.094                        | 0.094                      |              |       |
|             | Bottom        | 0.467                         | -                          | 0.467        |             | Bottom        | 0.467                        | -                            | 0.467                      |              |       |
|             | Right         | 0.113                         | -                          | 0.113        |             | Right         | 0.113                        | -                            | 0.113                      |              |       |
|             | Left          | 0.173                         | 0.303                      | 0.476        |             | Left          | -                            | 0.303                        | 0.303                      |              |       |

|                                      |                                                                                                                                                                                                                |                               |                                        |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                             | DUT Type:<br>Portable Handset | Page 263 of 305                        |



| Simult Tx   | Configuration | NR Band n71 SAR (W/kg)       | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | Simult Tx   | Configuration | NR Band n12 SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg)   | Σ SAR (W/kg)               |              |       |
|-------------|---------------|------------------------------|----------------------------|--------------|-------------|---------------|------------------------|------------------------------|----------------------------|--------------|-------|
|             |               | 1                            | 2                          | 1+2          |             |               | 1                      | 2                            | 1+2                        |              |       |
| Hotspot SAR | Back          | 0.366                        | 0.933                      | <b>1.299</b> | Hotspot SAR | Back          | 0.401                  | 0.933                        | <b>1.334</b>               |              |       |
|             | Front         | 0.234                        | 0.027                      | 0.261        |             | Front         | 0.249                  | 0.027                        | 0.276                      |              |       |
|             | Top           | -                            | 0.094                      | 0.094        |             | Top           | -                      | 0.094                        | 0.094                      |              |       |
|             | Bottom        | 0.201                        | -                          | 0.201        |             | Bottom        | 0.211                  | -                            | 0.211                      |              |       |
|             | Right         | 0.150                        | -                          | 0.150        |             | Right         | 0.165                  | -                            | 0.165                      |              |       |
|             | Left          | 0.277                        | 0.303                      | 0.580        |             | Left          | 0.290                  | 0.303                        | 0.593                      |              |       |
| Simult Tx   | Configuration | NR Band n5 (Cell) SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR       | Simult Tx     | Configuration          | NR Band n66 (AWS) SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR |
|             |               | 1                            | 2                          | 1+2          |             |               |                        | 1+2                          | 1                          | 2            |       |
| Hotspot SAR | Back          | 0.676                        | 0.933                      | See Note 1   | 0.01        | Hotspot SAR   | Back                   | 0.735                        | 0.933                      | See Note 1   | 0.01  |
|             | Front         | 0.434                        | 0.027                      | 0.461        | N/A         |               | Front                  | 0.403                        | 0.027                      | 0.430        | N/A   |
|             | Top           | -                            | 0.094                      | 0.094        | N/A         |               | Top                    | -                            | 0.094                      | 0.094        | N/A   |
|             | Bottom        | 0.379                        | -                          | 0.379        | N/A         |               | Bottom                 | 1.162                        | -                          | <b>1.162</b> | N/A   |
|             | Right         | 0.065                        | -                          | 0.065        | N/A         |               | Right                  | 0.086                        | -                          | 0.086        | N/A   |
|             | Left          | 0.223                        | 0.303                      | <b>0.526</b> | N/A         |               | Left                   | 0.072                        | 0.303                      | 0.375        | N/A   |
| Simult Tx   | Configuration | NR Band n25 (PCS) SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | Simult Tx   | Configuration | NR Band n41 SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg)   | Σ SAR (W/kg)               |              |       |
|             |               | 1                            | 2                          | 1+2          |             |               | 1                      | 2                            | 1+2                        |              |       |
| Hotspot SAR | Back          | 0.558                        | 0.933                      | <b>1.491</b> | Hotspot SAR | Back          | 0.172                  | 0.933                        | <b>1.105</b>               |              |       |
|             | Front         | 0.385                        | 0.027                      | 0.412        |             | Front         | 0.198                  | 0.027                        | 0.225                      |              |       |
|             | Top           | -                            | 0.094                      | 0.094        |             | Top           | 0.527                  | 0.094                        | 0.621                      |              |       |
|             | Bottom        | 1.166                        | -                          | 1.166        |             | Bottom        | 0.031                  | 0.303                        | 0.334                      |              |       |
|             | Right         | 0.052                        | -                          | 0.052        |             |               |                        |                              |                            |              |       |
|             | Left          | 0.047                        | 0.303                      | 0.350        |             |               |                        |                              |                            |              |       |

Note 1 - No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. See Section 12.7 for detailed SPLS ratio analysis.

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 264 of 305                        |



**Table 12-17**  
**Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 5 GHz WLAN MIMO (Hotspot at 1.0 cm)**

| Exposure Condition | Mode               | 2G/3G/4G/5G SAR (W/kg) | 2.4 GHz WLAN MIMO at 18 dBm SAR (W/kg) | 5 GHz WLAN MIMO at 15 dBm SAR (W/kg) | Σ SAR (W/kg)    |
|--------------------|--------------------|------------------------|----------------------------------------|--------------------------------------|-----------------|
|                    |                    | 1                      | 2                                      | 3                                    | 1+2+3           |
| Hotspot SAR        | EVDO BC10 (§90S)   | 1.160                  | 0.167                                  | 0.272                                | See Table Below |
|                    | EVDO BC0 (§22H)    | 0.889                  | 0.167                                  | 0.272                                | 1.328           |
|                    | PCS EVDO           | 1.097                  | 0.167                                  | 0.272                                | 1.536           |
|                    | GPRS 850           | 0.856                  | 0.167                                  | 0.272                                | 1.295           |
|                    | GPRS 1900          | 0.813                  | 0.167                                  | 0.272                                | 1.252           |
|                    | UMTS 850           | 0.721                  | 0.167                                  | 0.272                                | 1.160           |
|                    | UMTS 1750          | 1.180                  | 0.167                                  | 0.272                                | See Table Below |
|                    | UMTS 1900          | 1.097                  | 0.167                                  | 0.272                                | 1.536           |
|                    | LTE Band 71        | 0.385                  | 0.167                                  | 0.272                                | 0.824           |
|                    | LTE Band 12        | 0.420                  | 0.167                                  | 0.272                                | 0.859           |
|                    | LTE Band 13        | 0.743                  | 0.167                                  | 0.272                                | 1.182           |
|                    | LTE Band 14        | 0.681                  | 0.167                                  | 0.272                                | 1.120           |
|                    | LTE Band 26 (Cell) | 0.693                  | 0.167                                  | 0.272                                | 1.132           |
|                    | LTE Band 5 (Cell)  | 0.680                  | 0.167                                  | 0.272                                | 1.119           |
|                    | LTE Band 66 (AWS)  | 1.131                  | 0.167                                  | 0.272                                | <b>1.570</b>    |
|                    | LTE Band 25 (PCS)  | 1.165                  | 0.167                                  | 0.272                                | See Table Below |
|                    | LTE Band 30        | 1.037                  | 0.167                                  | 0.272                                | 1.476           |
|                    | LTE Band 7         | 0.569                  | 0.167                                  | 0.272                                | 1.008           |
|                    | LTE Band 48        | 0.852                  | 0.167                                  | 0.272                                | 1.291           |
|                    | LTE Band 41        | 0.467                  | 0.167                                  | 0.272                                | 0.906           |
|                    | NR Band n71        | 0.366                  | 0.167                                  | 0.272                                | 0.805           |
|                    | NR Band n12        | 0.401                  | 0.167                                  | 0.272                                | 0.840           |
|                    | NR Band n5 (Cell)  | 0.676                  | 0.167                                  | 0.272                                | 1.115           |
|                    | NR Band n66 (AWS)  | 1.162                  | 0.167                                  | 0.272                                | See Table Below |
|                    | NR Band n25 (PCS)  | 1.166                  | 0.167                                  | 0.272                                | See Table Below |
|                    | NR Band n41        | 0.527                  | 0.167                                  | 0.272                                | 0.966           |

|                                      |                                                                                                                                                        |                               |                                                                                       |                                 |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of the ROHM Group</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                     | DUT Type:<br>Portable Handset |                                                                                       | Page 265 of 305                 |

| Simult Tx   | Configuration | EVDO BC10 (\$90S) SAR (W/kg) | 2.4 GHz WLAN MIMO at 18 dBm SAR (W/kg) | 5 GHz WLAN MIMO at 15 dBm SAR (W/kg) | Σ SAR (W/kg) | Simult Tx   | Configuration | UMTS 1750 SAR (W/kg)         | 2.4 GHz WLAN MIMO at 18 dBm SAR (W/kg) | 5 GHz WLAN MIMO at 15 dBm SAR (W/kg) | Σ SAR (W/kg) |
|-------------|---------------|------------------------------|----------------------------------------|--------------------------------------|--------------|-------------|---------------|------------------------------|----------------------------------------|--------------------------------------|--------------|
|             |               | 1                            | 2                                      | 3                                    | 1+2+3        |             |               | 1                            | 2                                      | 3                                    | 1+2+3        |
| Hotspot SAR | Back          | 1.160                        | 0.104                                  | 0.272                                | <b>1.536</b> | Hotspot SAR | Back          | 0.357                        | 0.104                                  | 0.272                                | 0.733        |
|             | Front         | 0.768                        | 0.167*                                 | 0.009                                | 0.944        |             | Front         | 0.286                        | 0.167*                                 | 0.009                                | 0.462        |
|             | Top           | -                            | 0.167                                  | 0.272*                               | 0.439        |             | Top           | -                            | 0.167                                  | 0.272*                               | 0.439        |
|             | Bottom        | 0.581                        | -                                      | -                                    | 0.581        |             | Bottom        | 1.180                        | -                                      | -                                    | <b>1.180</b> |
|             | Right         | 0.087                        | -                                      | -                                    | 0.087        |             | Right         | 0.058                        | -                                      | -                                    | 0.058        |
|             | Left          | 0.328                        | 0.167*                                 | 0.077                                | 0.572        |             | Left          | 0.055                        | 0.167*                                 | 0.077                                | 0.299        |
| Simult Tx   | Configuration | LTE Band 25 (PCS) SAR (W/kg) | 2.4 GHz WLAN MIMO at 18 dBm SAR (W/kg) | 5 GHz WLAN MIMO at 15 dBm SAR (W/kg) | Σ SAR (W/kg) | Simult Tx   | Configuration | NR Band n66 (AWS) SAR (W/kg) | 2.4 GHz WLAN MIMO at 18 dBm SAR (W/kg) | 5 GHz WLAN MIMO at 15 dBm SAR (W/kg) | Σ SAR (W/kg) |
|             |               | 1                            | 2                                      | 3                                    | 1+2+3        |             |               | 1                            | 2                                      | 3                                    | 1+2+3        |
| Hotspot SAR | Back          | 0.591                        | 0.104                                  | 0.272                                | 0.967        | Hotspot SAR | Back          | 0.735                        | 0.104                                  | 0.272                                | 1.111        |
|             | Front         | 0.417                        | 0.167*                                 | 0.009                                | 0.593        |             | Front         | 0.403                        | 0.167*                                 | 0.009                                | 0.579        |
|             | Top           | -                            | 0.167                                  | 0.272*                               | 0.439        |             | Top           | -                            | 0.167                                  | 0.272*                               | 0.439        |
|             | Bottom        | 1.165                        | -                                      | -                                    | <b>1.165</b> |             | Bottom        | 1.162                        | -                                      | -                                    | <b>1.162</b> |
|             | Right         | 0.066                        | -                                      | -                                    | 0.066        |             | Right         | 0.086                        | -                                      | -                                    | 0.086        |
|             | Left          | 0.056                        | 0.167*                                 | 0.077                                | 0.300        |             | Left          | 0.072                        | 0.167*                                 | 0.077                                | 0.316        |
| Simult Tx   | Configuration | NR Band n25 (PCS) SAR (W/kg) | 2.4 GHz WLAN MIMO at 18 dBm SAR (W/kg) | 5 GHz WLAN MIMO at 15 dBm SAR (W/kg) | Σ SAR (W/kg) | Simult Tx   | Configuration | NR Band n25 (PCS) SAR (W/kg) | 2.4 GHz WLAN MIMO at 18 dBm SAR (W/kg) | 5 GHz WLAN MIMO at 15 dBm SAR (W/kg) | Σ SAR (W/kg) |
|             |               | 1                            | 2                                      | 3                                    | 1+2+3        |             |               | 1                            | 2                                      | 3                                    | 1+2+3        |
| Hotspot SAR | Back          | 0.558                        | 0.104                                  | 0.272                                | 0.934        | Hotspot SAR | Back          | 0.558                        | 0.104                                  | 0.272                                | 0.934        |
|             | Front         | 0.385                        | 0.167*                                 | 0.009                                | 0.561        |             | Front         | 0.385                        | 0.167*                                 | 0.009                                | 0.561        |
|             | Top           | -                            | 0.167                                  | 0.272*                               | 0.439        |             | Top           | -                            | 0.167                                  | 0.272*                               | 0.439        |
|             | Bottom        | 1.166                        | -                                      | -                                    | <b>1.166</b> |             | Bottom        | 1.166                        | -                                      | -                                    | <b>1.166</b> |
|             | Right         | 0.052                        | -                                      | -                                    | 0.052        |             | Right         | 0.052                        | -                                      | -                                    | 0.052        |
|             | Left          | 0.047                        | 0.167*                                 | 0.077                                | 0.291        |             | Left          | 0.047                        | 0.167*                                 | 0.077                                | 0.291        |

|                                             |                                                                                                                                                                                                                          |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  <b>Vcom</b> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 266 of 305                        |

**Table 12-18**  
**Simultaneous Transmission Scenario with Bluetooth (Hotspot at 1.0 cm)**

| Exposure Condition | Mode               | 2G/3G/4G/5G SAR (W/kg) | Bluetooth SAR (W/kg) | Σ SAR (W/kg) |
|--------------------|--------------------|------------------------|----------------------|--------------|
|                    |                    | 1                      | 2                    | 1+2          |
| Hotspot SAR        | EVDO BC10 (§90S)   | 1.160                  | 0.249                | 1.409        |
|                    | EVDO BC0 (§22H)    | 0.889                  | 0.249                | 1.138        |
|                    | PCS EVDO           | 1.097                  | 0.249                | 1.346        |
|                    | GPRS 850           | 0.856                  | 0.249                | 1.105        |
|                    | GPRS 1900          | 0.813                  | 0.249                | 1.062        |
|                    | UMTS 850           | 0.721                  | 0.249                | 0.970        |
|                    | UMTS 1750          | 1.180                  | 0.249                | <b>1.429</b> |
|                    | UMTS 1900          | 1.097                  | 0.249                | 1.346        |
|                    | LTE Band 71        | 0.385                  | 0.249                | 0.634        |
|                    | LTE Band 12        | 0.420                  | 0.249                | 0.669        |
|                    | LTE Band 13        | 0.743                  | 0.249                | 0.992        |
|                    | LTE Band 14        | 0.681                  | 0.249                | 0.930        |
|                    | LTE Band 26 (Cell) | 0.693                  | 0.249                | 0.942        |
|                    | LTE Band 5 (Cell)  | 0.680                  | 0.249                | 0.929        |
|                    | LTE Band 66 (AWS)  | 1.131                  | 0.249                | 1.380        |
|                    | LTE Band 25 (PCS)  | 1.165                  | 0.249                | 1.414        |
|                    | LTE Band 30        | 1.037                  | 0.249                | 1.286        |
|                    | LTE Band 7         | 0.569                  | 0.249                | 0.818        |
|                    | LTE Band 48        | 0.852                  | 0.249                | 1.101        |
|                    | LTE Band 41        | 0.467                  | 0.249                | 0.716        |
|                    | NR Band n71        | 0.366                  | 0.249                | 0.615        |
|                    | NR Band n12        | 0.401                  | 0.249                | 0.650        |
|                    | NR Band n5 (Cell)  | 0.676                  | 0.249                | 0.925        |
|                    | NR Band n66 (AWS)  | 1.162                  | 0.249                | 1.411        |
|                    | NR Band n25 (PCS)  | 1.166                  | 0.249                | 1.415        |
|                    | NR Band n41        | 0.527                  | 0.249                | 0.776        |

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset | Page 267 of 305                                                                       |                                        |

**Table 12-19**  
**Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN (Hotspot at 1.0 cm)**

| Exposure Condition | Mode               |                              | 2G/3G/4G/5G SAR (W/kg) | Bluetooth SAR (W/kg)        | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg)    |       |                 |      |      |      |
|--------------------|--------------------|------------------------------|------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------|-------|-----------------|------|------|------|
|                    |                    |                              | 1                      | 2                           | 3                           | 4                           | 1+2+3           |       | 1+2+4           |      |      |      |
| Hotspot SAR        | EVDO BC10 (\$90S)  |                              | 1.160                  | 0.249                       | 0.589                       | 0.590                       | See Table Below |       | See Table Below |      |      |      |
|                    | EVDO BC0 (\$22H)   |                              | 0.889                  | 0.249                       | 0.589                       | 0.590                       | See Table Below |       | See Table Below |      |      |      |
|                    | PCS EVDO           |                              | 1.097                  | 0.249                       | 0.589                       | 0.590                       | See Table Below |       | See Table Below |      |      |      |
|                    | GPRS 850           |                              | 0.856                  | 0.249                       | 0.589                       | 0.590                       | See Table Below |       | See Table Below |      |      |      |
|                    | GPRS 1900          |                              | 0.813                  | 0.249                       | 0.589                       | 0.590                       | See Table Below |       | See Table Below |      |      |      |
|                    | UMTS 850           |                              | 0.721                  | 0.249                       | 0.589                       | 0.590                       | 1.559           |       | 1.560           |      |      |      |
|                    | UMTS 1750          |                              | 1.180                  | 0.249                       | 0.589                       | 0.590                       | See Table Below |       | See Table Below |      |      |      |
|                    | UMTS 1900          |                              | 1.097                  | 0.249                       | 0.589                       | 0.590                       | See Table Below |       | See Table Below |      |      |      |
|                    | LTE Band 71        |                              | 0.385                  | 0.249                       | 0.589                       | 0.590                       | 1.223           |       | 1.224           |      |      |      |
|                    | LTE Band 12        |                              | 0.420                  | 0.249                       | 0.589                       | 0.590                       | 1.258           |       | 1.259           |      |      |      |
|                    | LTE Band 13        |                              | 0.743                  | 0.249                       | 0.589                       | 0.590                       | 1.581           |       | 1.582           |      |      |      |
|                    | LTE Band 14        |                              | 0.681                  | 0.249                       | 0.589                       | 0.590                       | 1.519           |       | 1.520           |      |      |      |
|                    | LTE Band 26 (Cell) |                              | 0.693                  | 0.249                       | 0.589                       | 0.590                       | 1.531           |       | 1.532           |      |      |      |
|                    | LTE Band 5 (Cell)  |                              | 0.680                  | 0.249                       | 0.589                       | 0.590                       | 1.518           |       | 1.519           |      |      |      |
|                    | LTE Band 66 (AWS)  |                              | 1.131                  | 0.249                       | 0.589                       | 0.590                       | See Table Below |       | See Table Below |      |      |      |
|                    | LTE Band 25 (PCS)  |                              | 1.165                  | 0.249                       | 0.589                       | 0.590                       | See Table Below |       | See Table Below |      |      |      |
|                    | LTE Band 30        |                              | 1.037                  | 0.249                       | 0.589                       | 0.590                       | See Table Below |       | See Table Below |      |      |      |
|                    | LTE Band 7         |                              | 0.569                  | 0.249                       | 0.589                       | 0.590                       | 1.407           |       | 1.408           |      |      |      |
|                    | LTE Band 48        |                              | 0.852                  | 0.249                       | 0.589                       | 0.590                       | See Table Below |       | See Table Below |      |      |      |
|                    | LTE Band 41        |                              | 0.467                  | 0.249                       | 0.589                       | 0.590                       | 1.305           |       | 1.306           |      |      |      |
|                    | NR Band n71        |                              | 0.366                  | 0.249                       | 0.589                       | 0.590                       | 1.204           |       | 1.205           |      |      |      |
|                    | NR Band n12        |                              | 0.401                  | 0.249                       | 0.589                       | 0.590                       | 1.239           |       | 1.240           |      |      |      |
|                    | NR Band n5 (Cell)  |                              | 0.676                  | 0.249                       | 0.589                       | 0.590                       | 1.514           |       | 1.515           |      |      |      |
|                    | NR Band n66 (AWS)  |                              | 1.162                  | 0.249                       | 0.589                       | 0.590                       | See Table Below |       | See Table Below |      |      |      |
|                    | NR Band n25 (PCS)  |                              | 1.166                  | 0.249                       | 0.589                       | 0.590                       | See Table Below |       | See Table Below |      |      |      |
|                    | NR Band n41        |                              | 0.527                  | 0.249                       | 0.589                       | 0.590                       | 1.365           |       | 1.366           |      |      |      |
| Simult Tx          | Configuration      | EVDO BC10 (\$90S) SAR (W/kg) | Bluetooth SAR (W/kg)   | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg)                |                 | SPLSR |                 |      |      |      |
|                    |                    | 1                            | 2                      | 3                           | 4                           | 1+2+3                       | 1+2+4           | 1+2   | 1+3             | 1+4  | 2+3  | 2+4  |
| Hotspot SAR        | Back               | 1.160                        | 0.075                  | 0.589                       | 0.590                       | See Note 1                  | See Note 1      | 0.01  | 0.01            | 0.01 | 0.01 | 0.01 |
|                    | Front              | 0.768                        | 0.088                  | 0.589*                      | 0.590*                      | 1.445                       | 1.446           | N/A   | N/A             | N/A  | N/A  | N/A  |
|                    | Top                | -                            | 0.249                  | 0.055                       | 0.070                       | 0.304                       | 0.319           | N/A   | N/A             | N/A  | N/A  | N/A  |
|                    | Bottom             | 0.581                        | -                      | -                           | -                           | 0.581                       | 0.581           | N/A   | N/A             | N/A  | N/A  | N/A  |
|                    | Right              | 0.087                        | -                      | -                           | -                           | 0.087                       | 0.087           | N/A   | N/A             | N/A  | N/A  | N/A  |
|                    | Left               | 0.328                        | 0.019                  | 0.122                       | 0.188                       | 0.469                       | 0.535           | N/A   | N/A             | N/A  | N/A  | N/A  |

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset | Page 268 of 305                                                                       |                                        |

| Simult Tx      | Configuration | EVDO BCO<br>(\$22H) SAR<br>(W/kg)  | Bluetooth<br>SAR (W/kg) | 5 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | Σ SAR (W/kg) |              | Simult Tx      | Configuration | PCS EVDO<br>SAR (W/kg)             | Bluetooth<br>SAR (W/kg) | 5 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | Σ SAR (W/kg) |              |
|----------------|---------------|------------------------------------|-------------------------|--------------------------------------|--------------------------------------|--------------|--------------|----------------|---------------|------------------------------------|-------------------------|--------------------------------------|--------------------------------------|--------------|--------------|
|                |               | 1                                  | 2                       | 3                                    | 4                                    | 1+2+3        | 1+2+4        |                |               | 1                                  | 2                       | 3                                    | 4                                    | 1+2+3        | 1+2+4        |
| Hotspot<br>SAR | Back          | 0.889                              | 0.075                   | 0.589                                | 0.590                                | 1.553        | <b>1.554</b> | Hotspot<br>SAR | Back          | 0.572                              | 0.075                   | 0.589                                | 0.590                                | 1.236        | <b>1.237</b> |
|                | Front         | 0.638                              | 0.088                   | 0.589*                               | 0.590*                               | 1.315        | 1.316        |                | Front         | 0.388                              | 0.088                   | 0.589*                               | 0.590*                               | 1.065        | 1.066        |
|                | Top           | -                                  | 0.249                   | 0.055                                | 0.070                                | 0.304        | 0.319        |                | Top           | -                                  | 0.249                   | 0.055                                | 0.070                                | 0.304        | 0.319        |
|                | Bottom        | 0.508                              | -                       | -                                    | -                                    | 0.508        | 0.508        |                | Bottom        | 1.097                              | -                       | -                                    | -                                    | 1.097        | 1.097        |
|                | Right         | 0.062                              | -                       | -                                    | -                                    | 0.062        | 0.062        |                | Right         | 0.071                              | -                       | -                                    | -                                    | 0.071        | 0.071        |
|                | Left          | 0.293                              | 0.019                   | 0.122                                | 0.188                                | 0.434        | 0.500        |                | Left          | 0.054                              | 0.019                   | 0.122                                | 0.188                                | 0.195        | 0.261        |
| Simult Tx      | Configuration | GPRS 850<br>SAR (W/kg)             | Bluetooth<br>SAR (W/kg) | 5 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | Σ SAR (W/kg) |              | Simult Tx      | Configuration | GPRS 1900<br>SAR (W/kg)            | Bluetooth<br>SAR (W/kg) | 5 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | Σ SAR (W/kg) |              |
|                |               | 1                                  | 2                       | 3                                    | 4                                    | 1+2+3        | 1+2+4        |                |               | 1                                  | 2                       | 3                                    | 4                                    | 1+2+3        | 1+2+4        |
| Hotspot<br>SAR | Back          | 0.856                              | 0.075                   | 0.589                                | 0.590                                | 1.520        | <b>1.521</b> | Hotspot<br>SAR | Back          | 0.370                              | 0.075                   | 0.589                                | 0.590                                | 1.034        | <b>1.035</b> |
|                | Front         | 0.378                              | 0.088                   | 0.589*                               | 0.590*                               | 1.055        | 1.056        |                | Front         | 0.300                              | 0.088                   | 0.589*                               | 0.590*                               | 0.977        | 0.978        |
|                | Top           | -                                  | 0.249                   | 0.055                                | 0.070                                | 0.304        | 0.319        |                | Top           | -                                  | 0.249                   | 0.055                                | 0.070                                | 0.304        | 0.319        |
|                | Bottom        | 0.291                              | -                       | -                                    | -                                    | 0.291        | 0.291        |                | Bottom        | 0.813                              | -                       | -                                    | -                                    | 0.813        | 0.813        |
|                | Right         | 0.042                              | -                       | -                                    | -                                    | 0.042        | 0.042        |                | Right         | 0.043                              | -                       | -                                    | -                                    | 0.043        | 0.043        |
|                | Left          | 0.172                              | 0.019                   | 0.122                                | 0.188                                | 0.313        | 0.379        |                | Left          | 0.042                              | 0.019                   | 0.122                                | 0.188                                | 0.183        | 0.249        |
| Simult Tx      | Configuration | UMTS 1750<br>SAR (W/kg)            | Bluetooth<br>SAR (W/kg) | 5 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | Σ SAR (W/kg) |              | Simult Tx      | Configuration | UMTS 1900<br>SAR (W/kg)            | Bluetooth<br>SAR (W/kg) | 5 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | Σ SAR (W/kg) |              |
|                |               | 1                                  | 2                       | 3                                    | 4                                    | 1+2+3        | 1+2+4        |                |               | 1                                  | 2                       | 3                                    | 4                                    | 1+2+3        | 1+2+4        |
| Hotspot<br>SAR | Back          | 0.357                              | 0.075                   | 0.589                                | 0.590                                | 1.021        | 1.022        | Hotspot<br>SAR | Back          | 0.506                              | 0.075                   | 0.589                                | 0.590                                | 1.170        | <b>1.171</b> |
|                | Front         | 0.286                              | 0.088                   | 0.589*                               | 0.590*                               | 0.963        | 0.964        |                | Front         | 0.342                              | 0.088                   | 0.589*                               | 0.590*                               | 1.019        | 1.020        |
|                | Top           | -                                  | 0.249                   | 0.055                                | 0.070                                | 0.304        | 0.319        |                | Top           | -                                  | 0.249                   | 0.055                                | 0.070                                | 0.304        | 0.319        |
|                | Bottom        | 1.180                              | -                       | -                                    | -                                    | <b>1.180</b> | <b>1.180</b> |                | Bottom        | 1.097                              | -                       | -                                    | -                                    | 1.097        | 1.097        |
|                | Right         | 0.058                              | -                       | -                                    | -                                    | 0.058        | 0.058        |                | Right         | 0.051                              | -                       | -                                    | -                                    | 0.051        | 0.051        |
|                | Left          | 0.055                              | 0.019                   | 0.122                                | 0.188                                | 0.196        | 0.262        |                | Left          | 0.055                              | 0.019                   | 0.122                                | 0.188                                | 0.196        | 0.262        |
| Simult Tx      | Configuration | LTE Band<br>66 (AWS)<br>SAR (W/kg) | Bluetooth<br>SAR (W/kg) | 5 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | Σ SAR (W/kg) |              | Simult Tx      | Configuration | LTE Band<br>25 (PCS)<br>SAR (W/kg) | Bluetooth<br>SAR (W/kg) | 5 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | Σ SAR (W/kg) |              |
|                |               | 1                                  | 2                       | 3                                    | 4                                    | 1+2+3        | 1+2+4        |                |               | 1                                  | 2                       | 3                                    | 4                                    | 1+2+3        | 1+2+4        |
| Hotspot<br>SAR | Back          | 0.570                              | 0.075                   | 0.589                                | 0.590                                | 1.234        | <b>1.235</b> | Hotspot<br>SAR | Back          | 0.591                              | 0.075                   | 0.589                                | 0.590                                | 1.255        | <b>1.256</b> |
|                | Front         | 0.406                              | 0.088                   | 0.589*                               | 0.590*                               | 1.083        | 1.084        |                | Front         | 0.417                              | 0.088                   | 0.589*                               | 0.590*                               | 1.094        | 1.095        |
|                | Top           | -                                  | 0.249                   | 0.055                                | 0.070                                | 0.304        | 0.319        |                | Top           | -                                  | 0.249                   | 0.055                                | 0.070                                | 0.304        | 0.319        |
|                | Bottom        | 1.131                              | -                       | -                                    | -                                    | 1.131        | 1.131        |                | Bottom        | 1.165                              | -                       | -                                    | -                                    | 1.165        | 1.165        |
|                | Right         | 0.081                              | -                       | -                                    | -                                    | 0.081        | 0.081        |                | Right         | 0.066                              | -                       | -                                    | -                                    | 0.066        | 0.066        |
|                | Left          | 0.071                              | 0.019                   | 0.122                                | 0.188                                | 0.212        | 0.278        |                | Left          | 0.056                              | 0.019                   | 0.122                                | 0.188                                | 0.197        | 0.263        |
| Simult Tx      | Configuration | LTE Band<br>30 SAR<br>(W/kg)       | Bluetooth<br>SAR (W/kg) | 5 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | Σ SAR (W/kg) |              | Simult Tx      | Configuration | LTE Band<br>48 SAR<br>(W/kg)       | Bluetooth<br>SAR (W/kg) | 5 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | Σ SAR (W/kg) |              |
|                |               | 1                                  | 2                       | 3                                    | 4                                    | 1+2+3        | 1+2+4        |                |               | 1                                  | 2                       | 3                                    | 4                                    | 1+2+3        | 1+2+4        |
| Hotspot<br>SAR | Back          | 0.450                              | 0.075                   | 0.589                                | 0.590                                | 1.114        | <b>1.115</b> | Hotspot<br>SAR | Back          | 0.466                              | 0.075                   | 0.589                                | 0.590                                | 1.130        | 1.131        |
|                | Front         | 0.356                              | 0.088                   | 0.589*                               | 0.590*                               | 1.033        | 1.034        |                | Front         | 0.143                              | 0.088                   | 0.589*                               | 0.590*                               | 0.820        | 0.821        |
|                | Top           | -                                  | 0.249                   | 0.055                                | 0.070                                | 0.304        | 0.319        |                | Top           | 0.852                              | 0.249                   | 0.055                                | 0.070                                | 1.156        | <b>1.171</b> |
|                | Bottom        | 1.037                              | -                       | -                                    | -                                    | 1.037        | 1.037        |                | Bottom        | 0.173                              | 0.019                   | 0.122                                | 0.188                                | 0.314        | 0.380        |
|                | Right         | 0.080                              | -                       | -                                    | -                                    | 0.080        | 0.080        |                | Right         | 0.173                              | 0.019                   | 0.122                                | 0.188                                | 0.314        | 0.380        |
|                | Left          | 0.033                              | 0.019                   | 0.122                                | 0.188                                | 0.174        | 0.240        |                | Left          | 0.173                              | 0.019                   | 0.122                                | 0.188                                | 0.314        | 0.380        |
| Simult Tx      | Configuration | NR Band<br>n66 (AWS)<br>SAR (W/kg) | Bluetooth<br>SAR (W/kg) | 5 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | Σ SAR (W/kg) |              | Simult Tx      | Configuration | NR Band<br>n25 (PCS)<br>SAR (W/kg) | Bluetooth<br>SAR (W/kg) | 5 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | Σ SAR (W/kg) |              |
|                |               | 1                                  | 2                       | 3                                    | 4                                    | 1+2+3        | 1+2+4        |                |               | 1                                  | 2                       | 3                                    | 4                                    | 1+2+3        | 1+2+4        |
| Hotspot<br>SAR | Back          | 0.735                              | 0.075                   | 0.589                                | 0.590                                | 1.399        | <b>1.400</b> | Hotspot<br>SAR | Back          | 0.558                              | 0.075                   | 0.589                                | 0.590                                | 1.222        | <b>1.223</b> |
|                | Front         | 0.403                              | 0.088                   | 0.589*                               | 0.590*                               | 1.080        | 1.081        |                | Front         | 0.385                              | 0.088                   | 0.589*                               | 0.590*                               | 1.062        | 1.063        |
|                | Top           | -                                  | 0.249                   | 0.055                                | 0.070                                | 0.304        | 0.319        |                | Top           | -                                  | 0.249                   | 0.055                                | 0.070                                | 0.304        | 0.319        |
|                | Bottom        | 1.162                              | -                       | -                                    | -                                    | 1.162        | 1.162        |                | Bottom        | 1.166                              | -                       | -                                    | -                                    | 1.166        | 1.166        |
|                | Right         | 0.086                              | -                       | -                                    | -                                    | 0.086        | 0.086        |                | Right         | 0.052                              | -                       | -                                    | -                                    | 0.052        | 0.052        |
|                | Left          | 0.072                              | 0.019                   | 0.122                                | 0.188                                | 0.213        | 0.279        |                | Left          | 0.047                              | 0.019                   | 0.122                                | 0.188                                | 0.188        | 0.254        |

Note 1 - No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. See Section 12.7 for detailed SPLS ratio analysis.

|                                      |                                                                                                                                         |                               |                                                                                       |                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  PCTEST<br>Proud to be part of the SAMSUNG ecosystem | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                      | DUT Type:<br>Portable Handset |                                                                                       | Page 269 of 305                 |

Table 12-20

## Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN MIMO (Hotspot at 1.0 cm)

| Simult Tx   | Configuration | EVDO BC10 (\$90S) SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR |      |      |             | Simult Tx | Configuration | EVDO BC0 (\$22H) SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR |      |             |        |
|-------------|---------------|------------------------------|----------------------|----------------------------|--------------|-------|------|------|-------------|-----------|---------------|-----------------------------|----------------------|----------------------------|--------------|-------|------|-------------|--------|
|             |               | 1                            | 2                    | 3                          | 1+2+3        | 1+2   | 1+3  | 2+3  | 1           |           |               | 2                           | 3                    | 1+2+3                      | 1+2          | 1+3   | 2+3  |             |        |
|             |               | Back                         | Front                | Top                        | Bottom       | Right | Left |      | Back        |           |               | Front                       | Top                  | Bottom                     | Right        | Left  |      |             |        |
| Hotspot SAR | Back          | 1.160                        | 0.075                | 0.933                      | See Note 1   | 0.01  | 0.02 | 0.03 | Hotspot SAR | Back      | 0.889         | 0.075                       | 0.933                | See Note 1                 | 0.01         | 0.02  | 0.03 | Hotspot SAR | Back   |
|             | Front         | 0.768                        | 0.088                | 0.027                      | 0.883        | N/A   | N/A  | N/A  |             | Front     | 0.638         | 0.088                       | 0.027                | 0.753                      | N/A          | N/A   | N/A  |             | Front  |
|             | Top           | -                            | 0.249                | 0.094                      | 0.343        | N/A   | N/A  | N/A  |             | Top       | -             | 0.249                       | 0.094                | 0.343                      | N/A          | N/A   | N/A  |             | Top    |
|             | Bottom        | 0.581                        | -                    | -                          | 0.581        | N/A   | N/A  | N/A  |             | Bottom    | 0.508         | -                           | -                    | 0.508                      | N/A          | N/A   | N/A  |             | Bottom |
|             | Right         | 0.087                        | -                    | -                          | 0.087        | N/A   | N/A  | N/A  |             | Right     | 0.062         | -                           | -                    | 0.062                      | N/A          | N/A   | N/A  |             | Right  |
|             | Left          | 0.328                        | 0.019                | 0.303                      | 0.650        | N/A   | N/A  | N/A  |             | Left      | 0.293         | 0.019                       | 0.303                | 0.615                      | N/A          | N/A   | N/A  |             | Left   |

| Simult Tx   | Configuration | PCS EVDO SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | Simult Tx   | Configuration | GPRS 850 SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR |      |        |             |        |     |
|-------------|---------------|---------------------|----------------------|----------------------------|--------------|-------------|---------------|---------------------|----------------------|----------------------------|--------------|-------|------|--------|-------------|--------|-----|
|             |               | 1                   | 2                    | 3                          | 1+2+3        |             |               | 1+2                 | 1+3                  | 2+3                        | 1            | 2     | 3    | 1+2+3  | 1+2         | 1+3    | 2+3 |
|             |               | Back                | Front                | Top                        | Bottom       |             |               | Right               | Left                 |                            | Back         | Front | Top  | Bottom | Right       | Left   |     |
| Hotspot SAR | Back          | 0.572               | 0.075                | 0.933                      | 1.580        | Hotspot SAR | Back          | 0.856               | 0.075                | 0.933                      | See Note 1   | 0.01  | 0.02 | 0.03   | Hotspot SAR | Back   |     |
|             | Front         | 0.388               | 0.088                | 0.027                      | 0.503        |             | Front         | 0.378               | 0.088                | 0.027                      | 0.493        | N/A   | N/A  | N/A    |             | Front  |     |
|             | Top           | -                   | 0.249                | 0.094                      | 0.343        |             | Top           | -                   | 0.249                | 0.094                      | 0.343        | N/A   | N/A  | N/A    |             | Top    |     |
|             | Bottom        | 1.097               | -                    | -                          | 1.097        |             | Bottom        | 0.291               | -                    | -                          | 0.291        | N/A   | N/A  | N/A    |             | Bottom |     |
|             | Right         | 0.071               | -                    | -                          | 0.071        |             | Right         | 0.042               | -                    | -                          | 0.042        | N/A   | N/A  | N/A    |             | Right  |     |
|             | Left          | 0.054               | 0.019                | 0.303                      | 0.376        |             | Left          | 0.172               | 0.019                | 0.303                      | 0.494        | N/A   | N/A  | N/A    |             | Left   |     |

| Simult Tx   | Configuration | GPRS 1900 SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | Simult Tx   | Configuration | UMTS 850 SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR |      |        |             |        |     |
|-------------|---------------|----------------------|----------------------|----------------------------|--------------|-------------|---------------|---------------------|----------------------|----------------------------|--------------|-------|------|--------|-------------|--------|-----|
|             |               | 1                    | 2                    | 3                          | 1+2+3        |             |               | 1+2                 | 1+3                  | 2+3                        | 1            | 2     | 3    | 1+2+3  | 1+2         | 1+3    | 2+3 |
|             |               | Back                 | Front                | Top                        | Bottom       |             |               | Right               | Left                 |                            | Back         | Front | Top  | Bottom | Right       | Left   |     |
| Hotspot SAR | Back          | 0.370                | 0.075                | 0.933                      | 1.378        | Hotspot SAR | Back          | 0.721               | 0.075                | 0.933                      | See Note 1   | 0.00  | 0.01 | 0.03   | Hotspot SAR | Back   |     |
|             | Front         | 0.300                | 0.088                | 0.027                      | 0.415        |             | Front         | 0.498               | 0.088                | 0.027                      | 0.613        | N/A   | N/A  | N/A    |             | Front  |     |
|             | Top           | -                    | 0.249                | 0.094                      | 0.343        |             | Top           | -                   | 0.249                | 0.094                      | 0.343        | N/A   | N/A  | N/A    |             | Top    |     |
|             | Bottom        | 0.813                | -                    | -                          | 0.813        |             | Bottom        | 0.405               | -                    | -                          | 0.405        | N/A   | N/A  | N/A    |             | Bottom |     |
|             | Right         | 0.043                | -                    | -                          | 0.043        |             | Right         | 0.048               | -                    | -                          | 0.048        | N/A   | N/A  | N/A    |             | Right  |     |
|             | Left          | 0.042                | 0.019                | 0.303                      | 0.364        |             | Left          | 0.236               | 0.019                | 0.303                      | 0.558        | N/A   | N/A  | N/A    |             | Left   |     |

| Simult Tx   | Configuration | UMTS 1750 SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | Simult Tx   | Configuration | UMTS 1900 SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) |             |        |
|-------------|---------------|----------------------|----------------------|----------------------------|--------------|-------------|---------------|----------------------|----------------------|----------------------------|--------------|-------------|--------|
|             |               | 1                    | 2                    | 3                          | 1+2+3        |             |               | 1                    | 2                    | 3                          | 1+2+3        |             |        |
|             |               | Back                 | Front                | Top                        | Bottom       |             |               | Right                | Left                 |                            | Back         | Front       | Top    |
| Hotspot SAR | Back          | 0.357                | 0.075                | 0.933                      | 1.365        | Hotspot SAR | Back          | 0.506                | 0.075                | 0.933                      | 1.514        | Hotspot SAR | Back   |
|             | Front         | 0.286                | 0.088                | 0.027                      | 0.401        |             | Front         | 0.342                | 0.088                | 0.027                      | 0.457        |             | Front  |
|             | Top           | -                    | 0.249                | 0.094                      | 0.343        |             | Top           | -                    | 0.249                | 0.094                      | 0.343        |             | Top    |
|             | Bottom        | 1.180                | -                    | -                          | 1.180        |             | Bottom        | 1.097                | -                    | -                          | 1.097        |             | Bottom |
|             | Right         | 0.058                | -                    | -                          | 0.058        |             | Right         | 0.051                | -                    | -                          | 0.051        |             | Right  |
|             | Left          | 0.055                | 0.019                | 0.303                      | 0.377        |             | Left          | 0.055                | 0.019                | 0.303                      | 0.377        |             | Left   |

| Simult Tx   | Configuration | LTE Band 71 SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | Simult Tx   | Configuration | LTE Band 12 SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) |             |        |
|-------------|---------------|------------------------|----------------------|----------------------------|--------------|-------------|---------------|------------------------|----------------------|----------------------------|--------------|-------------|--------|
|             |               | 1                      | 2                    | 3                          | 1+2+3        |             |               | 1                      | 2                    | 3                          | 1+2+3        |             |        |
|             |               | Back                   | Front                | Top                        | Bottom       |             |               | Right                  | Left                 |                            | Back         | Front       | Top    |
| Hotspot SAR | Back          | 0.385                  | 0.075                | 0.933                      | 1.393        | Hotspot SAR | Back          | 0.420                  | 0.075                | 0.933                      | 1.428        | Hotspot SAR | Back   |
|             | Front         | 0.236                  | 0.088                | 0.027                      | 0.351        |             | Front         | 0.259                  | 0.088                | 0.027                      | 0.374        |             | Front  |
|             | Top           | -                      | 0.249                | 0.094                      | 0.343        |             | Top           | -                      | 0.249                | 0.094                      | 0.343        |             | Top    |
|             | Bottom        | 0.200                  | -                    | -                          | 0.200        |             | Bottom        | 0.215                  | -                    | -                          | 0.215        |             | Bottom |
|             | Right         | 0.157                  | -                    | -                          | 0.157        |             | Right         | 0.165                  | -                    | -                          | 0.165        |             | Right  |
|             | Left          | 0.299                  | 0.019                | 0.303                      | 0.621        |             | Left          | 0.306                  | 0.019                | 0.303                      | 0.628        |             | Left   |

| Simult Tx   | Configuration | LTE Band 13 SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR |      |      |             | Simult Tx | Configuration | LTE Band 14 SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR |      |             |        |
|-------------|---------------|------------------------|----------------------|----------------------------|--------------|-------|------|------|-------------|-----------|---------------|------------------------|----------------------|----------------------------|--------------|-------|------|-------------|--------|
|             |               | 1                      | 2                    | 3                          | 1+2+3        | 1+2   | 1+3  | 2+3  | 1           |           |               | 2                      | 3                    | 1+2+3                      | 1+2          | 1+3   | 2+3  |             |        |
|             |               | Back                   | Front                | Top                        | Bottom       | Right | Left |      | Back        |           |               | Front                  | Top                  | Bottom                     | Right        | Left  |      |             |        |
| Hotspot SAR | Back          | 0.743                  | 0.075                | 0.933                      | See Note 1   | 0.00  | 0.01 | 0.03 | Hotspot SAR | Back      | 0.681         | 0.075                  | 0.933                | See Note 1                 | 0.00         | 0.01  | 0.03 | Hotspot SAR | Back   |
|             | Front         | 0.552                  | 0.088                | 0.027                      | 0.667        | N/A   | N/A  | N/A  |             | Front     | 0.546         | 0.088                  | 0.027                | 0.661                      | N/A          | N/A   | N/A  |             | Front  |
|             | Top           | -                      | 0.249                | 0.094                      | 0.343        | N/A   | N/A  | N/A  |             | Top       | -             | 0.249                  | 0.094                | 0.343                      | N/A          | N/A   | N/A  |             | Top    |
|             | Bottom        | 0.432                  | -                    | -                          | 0.432        | N/A   | N/A  | N/A  |             | Bottom    | 0.438         | -                      | -                    | 0.438                      | N/A          | N/A   | N/A  |             | Bottom |
|             | Right         | 0.101                  | -                    | -                          | 0.101        | N/A   | N/A  | N/A  |             | Right     | 0.104         | -                      | -                    | 0.104                      | N/A          | N/A   | N/A  |             | Right  |
|             | Left          | 0.323                  | 0.019                | 0.303                      | 0.645        | N/A   | N/A  | N/A  |             | Left      | 0.365         | 0.019                  | 0.303                | 0.687                      | N/A          | N/A   | N/A  |             | Left   |

| Simult Tx   | Configuration | LTE Band 26 (Cell) SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR |      |      |             | Simult Tx | Configuration | LTE Band 5 (Cell) SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR |      |             |        |
|-------------|---------------|-------------------------------|----------------------|----------------------------|--------------|-------|------|------|-------------|-----------|---------------|------------------------------|----------------------|----------------------------|--------------|-------|------|-------------|--------|
|             |               | 1                             | 2                    | 3                          | 1+2+3        | 1+2   | 1+3  | 2+3  | 1           |           |               | 2                            | 3                    | 1+2+3                      | 1+2          | 1+3   | 2+3  |             |        |
|             |               | Back                          | Front                | Top                        | Bottom       | Right | Left |      | Back        |           |               | Front                        | Top                  | Bottom                     | Right        | Left  |      |             |        |
| Hotspot SAR | Back          | 0.693                         | 0.075                | 0.933                      | See Note 1   | 0.00  | 0.01 | 0.03 | Hotspot SAR | Back      | 0.680         | 0.075                        | 0.933                | See Note 1                 | 0.00         | 0.01  | 0.03 | Hotspot SAR | Back   |
|             | Front         | 0.493                         | 0.088                | 0.027                      | 0.608        | N/A   | N/A  | N/A  |             | Front     | 0.505         | 0.088                        | 0.027                | 0.620                      | N/A          | N/A   | N/A  |             | Front  |
|             | Top           | -                             | 0.249                | 0.094                      | 0.343        | N/A   | N/A  | N/A  |             | Top       | -             | 0.249                        | 0.094                | 0.343                      | N/A          | N/A   | N/A  |             | Top    |
|             | Bottom        | 0.361                         | -                    | -                          | 0.361        | N/A   | N/A  | N/A  |             | Bottom    | 0.381         | -                            | -                    | 0.381                      | N/A          | N/A   | N/A  |             | Bottom |
|             | Right         | 0.073                         | -                    | -                          | 0.073        | N/A   | N/A  | N/A  |             | Right     | 0.066         | -                            | -                    | 0.066                      | N/A          | N/A   | N/A  |             | Right  |
|             | Left          | 0.257                         | 0.019                | 0.303                      | 0.579        | N/A   | N/A  | N/A  |             | Left      | 0.246         | 0.019                        | 0.303                | 0.568                      | N/A          | N/A   | N/A  |             | Left   |

|                                      |                                                                                                                               |                               |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  PCTEST<br>Proud to be part of the element | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                            | DUT Type:<br>Portable Handset |                                                                                       | Page 270 of 305                 |

| Simult Tx   | Configuration | LTE Band 66 (AWS) SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | Simult Tx   | Configuration | LTE Band 25 (PCS) SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR |            |      |
|-------------|---------------|------------------------------|----------------------|----------------------------|--------------|-------------|---------------|------------------------------|----------------------|----------------------------|--------------|-------|------------|------|
|             |               | 1                            | 2                    | 3                          | 1+2+3        |             |               | 1                            | 2                    | 3                          | 1+2+3        | 1+2   | 1+3        | 2+3  |
|             |               | Back                         | 0.570                | 0.075                      | 0.933        |             |               | 1.578                        | Back                 | 0.591                      | 0.075        | 0.933 | See Note 1 | 0.00 |
| Hotspot SAR | Front         | 0.406                        | 0.088                | 0.027                      | 0.521        | Hotspot SAR | Front         | 0.417                        | 0.088                | 0.027                      | 0.532        | N/A   | N/A        | N/A  |
|             | Top           | -                            | 0.249                | 0.094                      | 0.343        |             | Top           | -                            | 0.249                | 0.094                      | 0.343        | N/A   | N/A        | N/A  |
|             | Bottom        | 1.131                        | -                    | -                          | 1.131        |             | Bottom        | 1.165                        | -                    | -                          | 1.165        | N/A   | N/A        | N/A  |
|             | Right         | 0.081                        | -                    | -                          | 0.081        |             | Right         | 0.066                        | -                    | -                          | 0.066        | N/A   | N/A        | N/A  |
|             | Left          | 0.071                        | 0.019                | 0.303                      | 0.393        |             | Left          | 0.056                        | 0.019                | 0.303                      | 0.378        | N/A   | N/A        | N/A  |

| Simult Tx   | Configuration | LTE Band 30 SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | Simult Tx   | Configuration | LTE Band 7 SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) |
|-------------|---------------|------------------------|----------------------|----------------------------|--------------|-------------|---------------|-----------------------|----------------------|----------------------------|--------------|
|             |               | 1                      | 2                    | 3                          | 1+2+3        |             |               | 1                     | 2                    | 3                          | 1+2+3        |
|             |               | Back                   | 0.450                | 0.075                      | 0.933        |             |               | 1.458                 | Back                 | 0.284                      | 0.075        |
| Hotspot SAR | Front         | 0.356                  | 0.088                | 0.027                      | 0.471        | Hotspot SAR | Front         | 0.223                 | 0.088                | 0.027                      | 0.338        |
|             | Top           | -                      | 0.249                | 0.094                      | 0.343        |             | Top           | -                     | 0.249                | 0.094                      | 0.343        |
|             | Bottom        | 1.037                  | -                    | -                          | 1.037        |             | Bottom        | 0.569                 | -                    | -                          | 0.569        |
|             | Right         | 0.080                  | -                    | -                          | 0.080        |             | Right         | 0.144                 | -                    | -                          | 0.144        |
|             | Left          | 0.033                  | 0.019                | 0.303                      | 0.355        |             | Left          | -                     | 0.019                | 0.303                      | 0.322        |

| Simult Tx   | Configuration | LTE Band 48 SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | Simult Tx | Configuration | LTE Band 41 SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) |
|-------------|---------------|------------------------|----------------------|----------------------------|--------------|-----------|---------------|------------------------|----------------------|----------------------------|--------------|
|             |               | 1                      | 2                    | 3                          | 1+2+3        |           |               | 1                      | 2                    | 3                          | 1+2+3        |
|             |               | Back                   | 0.466                | 0.075                      | 0.933        |           |               | 1.474                  | Hotspot SAR          | Back                       | 0.203        |
| Front       | 0.143         | 0.088                  | 0.027                | 0.258                      | Front        | 0.164     | 0.088         | 0.027                  |                      | 0.279                      |              |
| Top         | 0.852         | 0.249                  | 0.094                | 1.195                      | Top          | -         | 0.249         | 0.094                  |                      | 0.343                      |              |
| Bottom      | 0.467         | -                      | -                    | 0.467                      | Bottom       | 0.467     | -             | -                      |                      | 0.467                      |              |
| Left        | 0.173         | 0.019                  | 0.303                | 0.495                      | Right        | 0.113     | -             | -                      |                      | 0.113                      |              |
| Hotspot SAR | Left          | 0.173                  | 0.019                | 0.303                      | 0.495        | Left      | -             | 0.019                  | 0.303                | 0.322                      |              |

| Simult Tx   | Configuration | NR Band n71 SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | Simult Tx | Configuration | NR Band n12 SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) |
|-------------|---------------|------------------------|----------------------|----------------------------|--------------|-----------|---------------|------------------------|----------------------|----------------------------|--------------|
|             |               | 1                      | 2                    | 3                          | 1+2+3        |           |               | 1                      | 2                    | 3                          | 1+2+3        |
|             |               | Back                   | 0.366                | 0.075                      | 0.933        |           |               | 1.374                  | Hotspot SAR          | Back                       | 0.401        |
| Front       | 0.234         | 0.088                  | 0.027                | 0.349                      | Front        | 0.249     | 0.088         | 0.027                  |                      | 0.364                      |              |
| Top         | -             | 0.249                  | 0.094                | 0.343                      | Top          | -         | 0.249         | 0.094                  |                      | 0.343                      |              |
| Bottom      | 0.201         | -                      | -                    | 0.201                      | Bottom       | 0.211     | -             | -                      |                      | 0.211                      |              |
| Right       | 0.150         | -                      | -                    | 0.150                      | Right        | 0.165     | -             | -                      |                      | 0.165                      |              |
| Hotspot SAR | Left          | 0.277                  | 0.019                | 0.303                      | 0.599        | Left      | 0.290         | 0.019                  | 0.303                | 0.612                      |              |

| Simult Tx   | Configuration | NR Band n5 (Cell) SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR      |      |        | Simult Tx | Configuration | NR Band n66 (AWS) SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR |       |            |
|-------------|---------------|------------------------------|----------------------|----------------------------|--------------|------------|------|--------|-----------|---------------|------------------------------|----------------------|----------------------------|--------------|-------|-------|------------|
|             |               | 1                            | 2                    | 3                          | 1+2+3        | 1+2        | 1+3  | 2+3    |           |               | 1                            | 2                    | 3                          | 1+2+3        | 1+2   | 1+3   | 2+3        |
|             |               | Back                         | 0.676                | 0.075                      | 0.933        | See Note 1 | 0.00 | 0.01   |           |               | 0.03                         | Hotspot SAR          | Back                       | 0.735        | 0.075 | 0.933 | See Note 1 |
| Front       | 0.434         | 0.088                        | 0.027                | 0.549                      | N/A          | N/A        | N/A  | Front  | 0.403     | 0.088         | 0.027                        |                      | 0.518                      | N/A          | N/A   | N/A   |            |
| Top         | -             | 0.249                        | 0.094                | 0.343                      | N/A          | N/A        | N/A  | Top    | -         | 0.249         | 0.094                        |                      | 0.343                      | N/A          | N/A   | N/A   |            |
| Bottom      | 0.379         | -                            | -                    | 0.379                      | N/A          | N/A        | N/A  | Bottom | 1.162     | -             | -                            |                      | 1.162                      | N/A          | N/A   | N/A   |            |
| Right       | 0.065         | -                            | -                    | 0.065                      | N/A          | N/A        | N/A  | Right  | 0.086     | -             | -                            |                      | 0.086                      | N/A          | N/A   | N/A   |            |
| Hotspot SAR | Left          | 0.223                        | 0.019                | 0.303                      | 0.545        | N/A        | N/A  | N/A    | Left      | 0.072         | 0.019                        | 0.303                | 0.394                      | N/A          | N/A   | N/A   |            |

| Simult Tx   | Configuration | NR Band n25 (PCS) SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | Simult Tx | Configuration | NR Band n41 SAR (W/kg) | Bluetooth SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) |
|-------------|---------------|------------------------------|----------------------|----------------------------|--------------|-----------|---------------|------------------------|----------------------|----------------------------|--------------|
|             |               | 1                            | 2                    | 3                          | 1+2+3        |           |               | 1                      | 2                    | 3                          | 1+2+3        |
|             |               | Back                         | 0.558                | 0.075                      | 0.933        |           |               | 1.566                  | Hotspot SAR          | Back                       | 0.172        |
| Front       | 0.385         | 0.088                        | 0.027                | 0.500                      | Front        | 0.198     | 0.088         | 0.027                  |                      | 0.313                      |              |
| Top         | -             | 0.249                        | 0.094                | 0.343                      | Top          | 0.527     | 0.249         | 0.094                  |                      | 0.870                      |              |
| Bottom      | 1.166         | -                            | -                    | 1.166                      | Bottom       | 0.031     | 0.019         | 0.303                  |                      | 0.353                      |              |
| Right       | 0.052         | -                            | -                    | 0.052                      | Right        |           |               |                        |                      |                            |              |
| Hotspot SAR | Left          | 0.047                        | 0.019                | 0.303                      | 0.369        | Left      |               |                        |                      |                            |              |

Note 1 - No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. See Section 12.7 for detailed SPLS ratio analysis.

|                                      |                                                                                                                                                                                                           |                               |                                                                                       |                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  PCTEST<br>Proud to be part of the  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                        | DUT Type:<br>Portable Handset | Page 271 of 305                                                                       |                                 |



## 12.6 Phablet Simultaneous Transmission Analysis

For SAR summation, the highest reported SAR across all test distances was used as the most conservative evaluation for simultaneous transmission analysis for each device edge.

Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required if wireless router 1g SAR (scaled to the maximum output power, including tolerance) < 1.2 W/kg. Therefore no further analysis beyond the tables included in this section was required to determine that possible simultaneous transmission scenarios would not exceed the SAR limit.

**Table 12-21**  
**Simultaneous Transmission Scenario with 5 GHz WLAN SISO (Phablet)**

| Simult Tx   | Configuration | PCS EVDO SAR (W/kg)          | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) |            | SPLSR |      | Simult Tx   | Configuration | GPRS 1900 SAR (W/kg)         | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) |            | SPLSR |      |
|-------------|---------------|------------------------------|-----------------------------|-----------------------------|--------------|------------|-------|------|-------------|---------------|------------------------------|-----------------------------|-----------------------------|--------------|------------|-------|------|
|             |               | 1                            | 2                           | 3                           | 1+2          | 1+3        | 1+2   | 1+3  |             |               | 1                            | 2                           | 3                           | 1+2          | 1+3        | 1+2   | 1+3  |
| Phablet SAR | Back          | 2.988                        | 1.489                       | 2.193                       | See Note 1   | See Note 1 | 0.06  | 0.08 | Phablet SAR | Back          | 1.902                        | 1.489                       | 2.193                       | 3.391        | See Note 1 | N/A   | 0.06 |
|             | Front         | 2.630                        | 0.095                       | 0.055                       | 2.725        | 2.685      | N/A   | N/A  |             | Front         | 1.465                        | 0.095                       | 0.055                       | 1.560        | 1.520      | N/A   | N/A  |
|             | Top           | -                            | 1.489*                      | 2.193*                      | 1.489        | 2.193      | N/A   | N/A  |             | Top           | -                            | 1.489*                      | 2.193*                      | 1.489        | 2.193      | N/A   | N/A  |
|             | Bottom        | 3.030                        | -                           | -                           | 3.030        | 3.030      | N/A   | N/A  |             | Bottom        | 1.439                        | -                           | -                           | 1.439        | 1.439      | N/A   | N/A  |
|             | Right         | 0.458                        | -                           | -                           | 0.458        | 0.458      | N/A   | N/A  |             | Right         | 0.352                        | -                           | -                           | 0.352        | 0.352      | N/A   | N/A  |
|             | Left          | 0.355                        | 0.515                       | 0.399                       | 0.870        | 0.754      | N/A   | N/A  |             | Left          | 0.267                        | 0.515                       | 0.399                       | 0.782        | 0.666      | N/A   | N/A  |
| Simult Tx   | Configuration | UMTS 1750 SAR (W/kg)         | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) |            | SPLSR |      | Simult Tx   | Configuration | UMTS 1900 SAR (W/kg)         | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) |            | SPLSR |      |
|             |               | 1                            | 2                           | 3                           | 1+2          | 1+3        | 1+2   | 1+3  |             |               | 1                            | 2                           | 3                           | 1+2          | 1+3        | 1+2   | 1+3  |
| Phablet SAR | Back          | 2.435                        | 1.489                       | 2.193                       | 3.924        | See Note 1 | N/A   | 0.07 | Phablet SAR | Back          | 2.670                        | 1.489                       | 2.193                       | See Note 1   | See Note 1 | 0.06  | 0.08 |
|             | Front         | 2.292                        | 0.095                       | 0.055                       | 2.387        | 2.347      | N/A   | N/A  |             | Front         | 2.330                        | 0.095                       | 0.055                       | 2.425        | 2.385      | N/A   | N/A  |
|             | Top           | -                            | 1.489*                      | 2.193*                      | 1.489        | 2.193      | N/A   | N/A  |             | Top           | -                            | 1.489*                      | 2.193*                      | 1.489        | 2.193      | N/A   | N/A  |
|             | Bottom        | 3.113                        | -                           | -                           | 3.113        | 3.113      | N/A   | N/A  |             | Bottom        | 2.513                        | -                           | -                           | 2.513        | 2.513      | N/A   | N/A  |
|             | Right         | 0.435                        | -                           | -                           | 0.435        | 0.435      | N/A   | N/A  |             | Right         | 0.488                        | -                           | -                           | 0.488        | 0.488      | N/A   | N/A  |
|             | Left          | 0.185                        | 0.515                       | 0.399                       | 0.700        | 0.584      | N/A   | N/A  |             | Left          | 0.350                        | 0.515                       | 0.399                       | 0.865        | 0.749      | N/A   | N/A  |
| Simult Tx   | Configuration | LTE Band 66 (AWS) SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) |            | SPLSR |      | Simult Tx   | Configuration | LTE Band 25 (PCS) SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) |            | SPLSR |      |
|             |               | 1                            | 2                           | 3                           | 1+2          | 1+3        | 1+2   | 1+3  |             |               | 1                            | 2                           | 3                           | 1+2          | 1+3        | 1+2   | 1+3  |
| Phablet SAR | Back          | 2.974                        | 1.489                       | 2.193                       | See Note 1   | See Note 1 | 0.06  | 0.08 | Phablet SAR | Back          | 2.626                        | 1.489                       | 2.193                       | See Note 1   | See Note 1 | 0.06  | 0.07 |
|             | Front         | 2.495                        | 0.095                       | 0.055                       | 2.590        | 2.550      | N/A   | N/A  |             | Front         | 2.429                        | 0.095                       | 0.055                       | 2.524        | 2.484      | N/A   | N/A  |
|             | Top           | -                            | 1.489*                      | 2.193*                      | 1.489        | 2.193      | N/A   | N/A  |             | Top           | -                            | 1.489*                      | 2.193*                      | 1.489        | 2.193      | N/A   | N/A  |
|             | Bottom        | 2.987                        | -                           | -                           | 2.987        | 2.987      | N/A   | N/A  |             | Bottom        | 3.135                        | -                           | -                           | 3.135        | 3.135      | N/A   | N/A  |
|             | Right         | 0.568                        | -                           | -                           | 0.568        | 0.568      | N/A   | N/A  |             | Right         | 0.526                        | -                           | -                           | 0.526        | 0.526      | N/A   | N/A  |
|             | Left          | 0.373                        | 0.515                       | 0.399                       | 0.888        | 0.772      | N/A   | N/A  |             | Left          | 0.290                        | 0.515                       | 0.399                       | 0.805        | 0.689      | N/A   | N/A  |
| Simult Tx   | Configuration | LTE Band 30 SAR (W/kg)       | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) |            | SPLSR |      | Simult Tx   | Configuration | LTE Band 7 SAR (W/kg)        | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) |            | SPLSR |      |
|             |               | 1                            | 2                           | 3                           | 1+2          | 1+3        | 1+2   | 1+3  |             |               | 1                            | 2                           | 3                           | 1+2          | 1+3        | 1+2   | 1+3  |
| Phablet SAR | Back          | 2.909                        | 1.489                       | 2.193                       | See Note 1   | See Note 1 | 0.06  | 0.08 | Phablet SAR | Back          | 1.512                        | 1.489                       | 2.193                       | 3.001        | 3.705      |       |      |
|             | Front         | 2.171                        | 0.095                       | 0.055                       | 2.266        | 2.226      | N/A   | N/A  |             | Front         | 1.304                        | 0.095                       | 0.055                       | 1.399        | 1.359      |       |      |
|             | Top           | -                            | 1.489*                      | 2.193*                      | 1.489        | 2.193      | N/A   | N/A  |             | Top           | -                            | 1.489*                      | 2.193*                      | 1.489        | 2.193      |       |      |
|             | Bottom        | 2.535                        | -                           | -                           | 2.535        | 2.535      | N/A   | N/A  |             | Bottom        | 1.816                        | -                           | -                           | 1.816        | 1.816      |       |      |
|             | Right         | 0.424                        | -                           | -                           | 0.424        | 0.424      | N/A   | N/A  |             | Right         | 1.393                        | -                           | -                           | 1.393        | 1.393      |       |      |
|             | Left          | 0.191                        | 0.515                       | 0.399                       | 0.706        | 0.590      | N/A   | N/A  |             | Left          | -                            | 0.515                       | 0.399                       | 0.515        | 0.399      |       |      |
| Simult Tx   | Configuration | LTE Band 41 SAR (W/kg)       | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) |            | SPLSR |      | Simult Tx   | Configuration | NR Band n66 (AWS) SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) |            | SPLSR |      |
|             |               | 1                            | 2                           | 3                           | 1+2          | 1+3        | 1+2   | 1+3  |             |               | 1                            | 2                           | 3                           | 1+2          | 1+3        | 1+2   | 1+3  |
| Phablet SAR | Back          | 1.672                        | 1.489                       | 2.193                       | 3.161        | 3.865      |       |      | Phablet SAR | Back          | 2.729                        | 1.489                       | 2.193                       | See Note 1   | See Note 1 | 0.06  | 0.07 |
|             | Front         | 1.410                        | 0.095                       | 0.055                       | 1.505        | 1.465      |       |      |             | Front         | 2.219                        | 0.095                       | 0.055                       | 2.314        | 2.274      | N/A   | N/A  |
|             | Top           | -                            | 1.489*                      | 2.193*                      | 1.489        | 2.193      |       |      |             | Top           | -                            | 1.489*                      | 2.193*                      | 1.489        | 2.193      | N/A   | N/A  |
|             | Bottom        | 2.678                        | -                           | -                           | 2.678        | 2.678      |       |      |             | Bottom        | 2.347                        | -                           | -                           | 2.347        | 2.347      | N/A   | N/A  |
|             | Right         | 0.645                        | -                           | -                           | 0.645        | 0.645      |       |      |             | Right         | 0.595                        | -                           | -                           | 0.595        | 0.595      | N/A   | N/A  |
|             | Left          | -                            | 0.515                       | 0.399                       | 0.515        | 0.399      |       |      |             | Left          | 0.369                        | 0.515                       | 0.399                       | 0.884        | 0.768      | N/A   | N/A  |
| Simult Tx   | Configuration | NR Band n25 (PCS) SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) |            | SPLSR |      | Simult Tx   | Configuration | NR Band n25 (PCS) SAR (W/kg) | 5 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) |            | SPLSR |      |
|             |               | 1                            | 2                           | 3                           | 1+2          | 1+3        | 1+2   | 1+3  |             |               | 1                            | 2                           | 3                           | 1+2          | 1+3        | 1+2   | 1+3  |
| Phablet SAR | Back          | 2.341                        | 1.489                       | 2.193                       | 3.830        | See Note 1 | N/A   | 0.07 | Phablet SAR | Back          | 2.341                        | 1.489                       | 2.193                       | 3.830        | See Note 1 | N/A   | 0.07 |
|             | Front         | 1.888                        | 0.095                       | 0.055                       | 1.983        | 1.943      | N/A   | N/A  |             | Front         | 1.888                        | 0.095                       | 0.055                       | 1.983        | 1.943      | N/A   | N/A  |
|             | Top           | -                            | 1.489*                      | 2.193*                      | 1.489        | 2.193      | N/A   | N/A  |             | Top           | -                            | 1.489*                      | 2.193*                      | 1.489        | 2.193      | N/A   | N/A  |
|             | Bottom        | 2.472                        | -                           | -                           | 2.472        | 2.472      | N/A   | N/A  |             | Bottom        | 2.472                        | -                           | -                           | 2.472        | 2.472      | N/A   | N/A  |
|             | Right         | 0.667                        | -                           | -                           | 0.667        | 0.667      | N/A   | N/A  |             | Right         | 0.667                        | -                           | -                           | 0.667        | 0.667      | N/A   | N/A  |
|             | Left          | 0.401                        | 0.515                       | 0.399                       | 0.916        | 0.800      | N/A   | N/A  |             | Left          | 0.401                        | 0.515                       | 0.399                       | 0.916        | 0.800      | N/A   | N/A  |

|                                      |                                                                                                                               |                               |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  PCTEST<br>Proud to be part of the element | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                            | DUT Type:<br>Portable Handset |                                                                                       | Page 272 of 305                 |



**Table 12-22**  
**Simultaneous Transmission Scenario with 5 GHz WLAN MIMO (Phablet)**

| Simult Tx      | Configuration | PCS EVDO<br>SAR (W/kg)             | 5 GHz<br>WLAN<br>MIMO SAR<br>(W/kg) | $\Sigma$ SAR<br>(W/kg) | SPLSR | Simult Tx      | Configuration | GPRS 1900<br>SAR (W/kg)            | 5 GHz<br>WLAN<br>MIMO SAR<br>(W/kg) | $\Sigma$ SAR<br>(W/kg) | SPLSR |
|----------------|---------------|------------------------------------|-------------------------------------|------------------------|-------|----------------|---------------|------------------------------------|-------------------------------------|------------------------|-------|
|                |               | 1                                  | 2                                   | 1+2                    | 1+2   |                |               | 1                                  | 2                                   | 1+2                    | 1+2   |
| Phablet<br>SAR | Back          | 2.988                              | 2.765                               | See Note 1             | 0.10  | Phablet<br>SAR | Back          | 1.902                              | 2.765                               | See Note 1             | 0.07  |
|                | Front         | 2.630                              | 0.155                               | 2.785                  | N/A   |                | Front         | 1.465                              | 0.155                               | 1.620                  | N/A   |
|                | Top           | -                                  | 2.765*                              | 2.765                  | N/A   |                | Top           | -                                  | 2.765*                              | <b>2.765</b>           | N/A   |
|                | Bottom        | 3.030                              | -                                   | <b>3.030</b>           | N/A   |                | Bottom        | 1.439                              | -                                   | 1.439                  | N/A   |
|                | Right         | 0.458                              | -                                   | 0.458                  | N/A   |                | Right         | 0.352                              | -                                   | 0.352                  | N/A   |
|                | Left          | 0.355                              | 0.713                               | 1.068                  | N/A   |                | Left          | 0.267                              | 0.713                               | 0.980                  | N/A   |
| Simult Tx      | Configuration | UMTS 1750<br>SAR (W/kg)            | 5 GHz<br>WLAN<br>MIMO SAR<br>(W/kg) | $\Sigma$ SAR<br>(W/kg) | SPLSR | Simult Tx      | Configuration | UMTS 1900<br>SAR (W/kg)            | 5 GHz<br>WLAN<br>MIMO SAR<br>(W/kg) | $\Sigma$ SAR<br>(W/kg) | SPLSR |
|                |               | 1                                  | 2                                   | 1+2                    | 1+2   |                |               | 1                                  | 2                                   | 1+2                    | 1+2   |
| Phablet<br>SAR | Back          | 2.435                              | 2.765                               | See Note 1             | 0.08  | Phablet<br>SAR | Back          | 2.670                              | 2.765                               | See Note 1             | 0.09  |
|                | Front         | 2.292                              | 0.155                               | 2.447                  | N/A   |                | Front         | 2.330                              | 0.155                               | 2.485                  | N/A   |
|                | Top           | -                                  | 2.765*                              | 2.765                  | N/A   |                | Top           | -                                  | 2.765*                              | <b>2.765</b>           | N/A   |
|                | Bottom        | 3.113                              | -                                   | <b>3.113</b>           | N/A   |                | Bottom        | 2.513                              | -                                   | 2.513                  | N/A   |
|                | Right         | 0.435                              | -                                   | 0.435                  | N/A   |                | Right         | 0.488                              | -                                   | 0.488                  | N/A   |
|                | Left          | 0.185                              | 0.713                               | 0.898                  | N/A   |                | Left          | 0.350                              | 0.713                               | 1.063                  | N/A   |
| Simult Tx      | Configuration | LTE Band<br>66 (AWS)<br>SAR (W/kg) | 5 GHz<br>WLAN<br>MIMO SAR<br>(W/kg) | $\Sigma$ SAR<br>(W/kg) | SPLSR | Simult Tx      | Configuration | LTE Band<br>25 (PCS)<br>SAR (W/kg) | 5 GHz<br>WLAN<br>MIMO SAR<br>(W/kg) | $\Sigma$ SAR<br>(W/kg) | SPLSR |
|                |               | 1                                  | 2                                   | 1+2                    | 1+2   |                |               | 1                                  | 2                                   | 1+2                    | 1+2   |
| Phablet<br>SAR | Back          | 2.974                              | 2.765                               | See Note 1             | 0.09  | Phablet<br>SAR | Back          | 2.626                              | 2.765                               | See Note 1             | 0.09  |
|                | Front         | 2.495                              | 0.155                               | 2.650                  | N/A   |                | Front         | 2.429                              | 0.155                               | 2.584                  | N/A   |
|                | Top           | -                                  | 2.765*                              | 2.765                  | N/A   |                | Top           | -                                  | 2.765*                              | 2.765                  | N/A   |
|                | Bottom        | 2.987                              | -                                   | <b>2.987</b>           | N/A   |                | Bottom        | 3.135                              | -                                   | <b>3.135</b>           | N/A   |
|                | Right         | 0.568                              | -                                   | 0.568                  | N/A   |                | Right         | 0.526                              | -                                   | 0.526                  | N/A   |
|                | Left          | 0.373                              | 0.713                               | 1.086                  | N/A   |                | Left          | 0.290                              | 0.713                               | 1.003                  | N/A   |
| Simult Tx      | Configuration | LTE Band<br>30 SAR<br>(W/kg)       | 5 GHz<br>WLAN<br>MIMO SAR<br>(W/kg) | $\Sigma$ SAR<br>(W/kg) | SPLSR | Simult Tx      | Configuration | LTE Band 7<br>SAR (W/kg)           | 5 GHz<br>WLAN<br>MIMO SAR<br>(W/kg) | $\Sigma$ SAR<br>(W/kg) | SPLSR |
|                |               | 1                                  | 2                                   | 1+2                    | 1+2   |                |               | 1                                  | 2                                   | 1+2                    | 1+2   |
| Phablet<br>SAR | Back          | 2.909                              | 2.765                               | See Note 1             | 0.09  | Phablet<br>SAR | Back          | 1.512                              | 2.765                               | See Note 1             | 0.06  |
|                | Front         | 2.171                              | 0.155                               | 2.326                  | N/A   |                | Front         | 1.304                              | 0.155                               | 1.459                  | N/A   |
|                | Top           | -                                  | 2.765*                              | <b>2.765</b>           | N/A   |                | Top           | -                                  | 2.765*                              | <b>2.765</b>           | N/A   |
|                | Bottom        | 2.535                              | -                                   | 2.535                  | N/A   |                | Bottom        | 1.816                              | -                                   | 1.816                  | N/A   |
|                | Right         | 0.424                              | -                                   | 0.424                  | N/A   |                | Right         | 1.393                              | -                                   | 1.393                  | N/A   |
|                | Left          | 0.191                              | 0.713                               | 0.904                  | N/A   |                | Left          | -                                  | 0.713                               | 0.713                  | N/A   |

|                                             |                                                                                                                                                                                                                               |                                      |                                                                                       |                                        |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                     | <b>DUT Type:</b><br>Portable Handset | Page 273 of 305                                                                       |                                        |

| Simult Tx   | Configuration | LTE Band 41 SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR | Simult Tx   | Configuration | NR Band n66 (AWS) SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR |
|-------------|---------------|------------------------|----------------------------|--------------|-------|-------------|---------------|------------------------------|----------------------------|--------------|-------|
|             |               | 1                      | 2                          | 1+2          | 1+2   |             |               | 1                            | 2                          | 1+2          | 1+2   |
| Phablet SAR | Back          | 1.672                  | 2.765                      | See Note 1   | 0.06  | Phablet SAR | Back          | 2.729                        | 2.765                      | See Note 1   | 0.09  |
|             | Front         | 1.410                  | 0.155                      | 1.565        | N/A   |             | Front         | 2.219                        | 0.155                      | 2.374        | N/A   |
|             | Top           | -                      | 2.765*                     | 2.765        | N/A   |             | Top           | -                            | 2.765*                     | 2.765        | N/A   |
|             | Bottom        | 2.678                  | -                          | 2.678        | N/A   |             | Bottom        | 2.347                        | -                          | 2.347        | N/A   |
|             | Right         | 0.645                  | -                          | 0.645        | N/A   |             | Right         | 0.595                        | -                          | 0.595        | N/A   |
|             | Left          | -                      | 0.713                      | 0.713        | N/A   |             | Left          | 0.369                        | 0.713                      | 1.082        | N/A   |

| Simult Tx   | Configuration | NR Band n25 (PCS) SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR |
|-------------|---------------|------------------------------|----------------------------|--------------|-------|
|             |               | 1                            | 2                          | 1+2          | 1+2   |
| Phablet SAR | Back          | 2.341                        | 2.765                      | See Note 1   | 0.08  |
|             | Front         | 1.888                        | 0.155                      | 2.043        | N/A   |
|             | Top           | -                            | 2.765*                     | 2.765        | N/A   |
|             | Bottom        | 2.472                        | -                          | 2.472        | N/A   |
|             | Right         | 0.667                        | -                          | 0.667        | N/A   |
|             | Left          | 0.401                        | 0.713                      | 1.114        | N/A   |

Note 1 - No evaluation was performed to determine the aggregate 10g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.10 per FCC KDB 447498 D01v06. See Section 12.7 for detailed SPLS ratio analysis.

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 274 of 305                        |

## 12.7 SPLSR Evaluation and Analysis

Per FCC KDB Publication 447498 D01v06, when the sum of the standalone transmitters is more than 1.6 W/kg for 1g and 4 W/kg for 10g, the SAR sum to peak locations can be analyzed to determine SAR distribution overlaps. When the SAR peak to location ratio (shown below) for each pair of antennas is  $\leq 0.04$  for 1g and  $\leq 0.10$  for 10g, simultaneous SAR evaluation is not required. The distance between the transmitters was calculated using the following formula.

$$\text{Distance}_{\text{Tx1} - \text{Tx2}} = R_i = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2} \text{ (Body-Worn, Hotspot, Phablet)}$$

$$\text{SPLS Ratio} = \frac{(SAR_1 + SAR_2)^{1.5}}{R_i}$$

### 12.7.1 Body-Worn Back Side SPLSR Evaluation and Analysis

**Table 12-23**  
**Peak SAR Locations for Body-Worn Back Side**

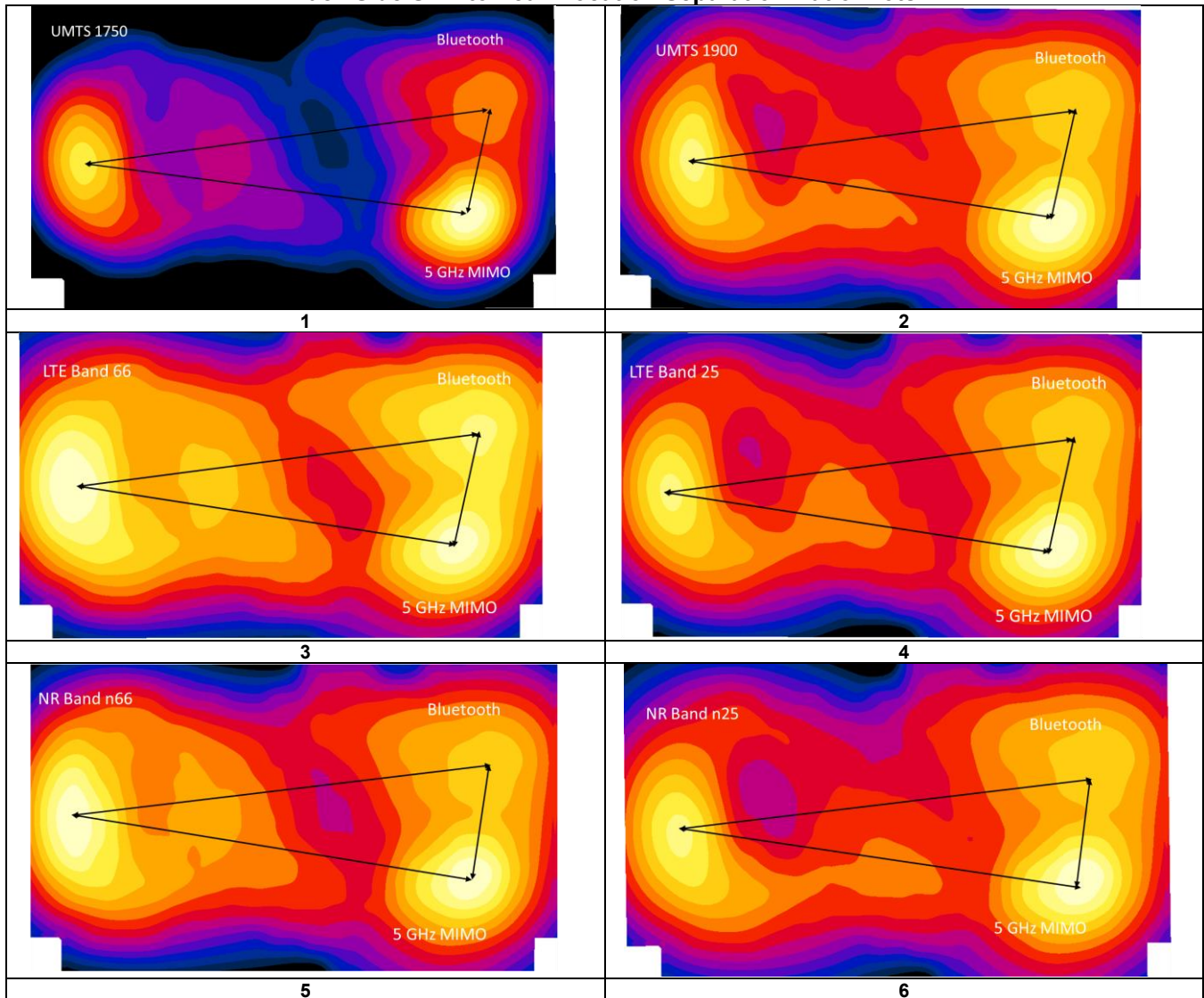
| Mode/Band         | x (mm) | y (mm) |
|-------------------|--------|--------|
| 5 GHz WLAN MIMO   | -4.00  | 68.00  |
| Bluetooth         | -45.40 | 78.60  |
| UMTS 1750         | -23.50 | -84.00 |
| UMTS 1900         | -23.50 | -76.50 |
| LTE Band 66 (AWS) | -25.00 | -84.00 |
| LTE Band 25 (PCS) | -14.00 | -84.00 |
| NR Band n66       | -23.50 | -87.00 |
| NR Band n25       | -11.00 | -84.00 |

**Table 12-24**  
**Body-Worn Back Side SAR to Peak Location Separation Ratio Calculations**

| Antenna Pair    |                   | Standalone SAR (W/kg) |       | Standalone SAR Sum (W/kg) | Peak SAR Separation Distance (mm) | SPLS Ratio                             | Plot Number |
|-----------------|-------------------|-----------------------|-------|---------------------------|-----------------------------------|----------------------------------------|-------------|
| Ant "a"         | Ant "b"           | a                     | b     | a+b                       | D <sub>a-b</sub>                  | (a+b) <sup>1.5</sup> /D <sub>a-b</sub> |             |
| 5 GHz WLAN MIMO | UMTS 1750         | 0.865                 | 0.794 | 1.659                     | 153.25                            | 0.01                                   | 1           |
| Bluetooth       | UMTS 1750         | 0.045                 | 0.794 | 0.839                     | 164.07                            | 0.00                                   |             |
| 5 GHz WLAN MIMO | Bluetooth         | 0.865                 | 0.045 | 0.91                      | 42.74                             | 0.02                                   | 2           |
| 5 GHz WLAN MIMO | UMTS 1900         | 0.865                 | 0.769 | 1.634                     | 145.81                            | 0.01                                   |             |
| Bluetooth       | UMTS 1900         | 0.045                 | 0.769 | 0.814                     | 156.64                            | 0.00                                   | 3           |
| 5 GHz WLAN MIMO | Bluetooth         | 0.865                 | 0.045 | 0.91                      | 42.74                             | 0.02                                   |             |
| 5 GHz WLAN MIMO | LTE Band 66 (AWS) | 0.865                 | 1.009 | 1.874                     | 153.44                            | 0.02                                   | 4           |
| Bluetooth       | LTE Band 66 (AWS) | 0.045                 | 1.009 | 1.054                     | 163.87                            | 0.01                                   |             |
| 5 GHz WLAN MIMO | Bluetooth         | 0.865                 | 0.045 | 0.91                      | 42.74                             | 0.02                                   | 5           |
| 5 GHz WLAN MIMO | LTE Band 25 (PCS) | 0.865                 | 0.830 | 1.695                     | 152.33                            | 0.01                                   |             |
| Bluetooth       | LTE Band 25 (PCS) | 0.045                 | 0.830 | 0.875                     | 165.60                            | 0.00                                   | 6           |
| 5 GHz WLAN MIMO | Bluetooth         | 0.865                 | 0.045 | 0.91                      | 42.74                             | 0.02                                   |             |
| 5 GHz WLAN MIMO | NR Band n66       | 0.865                 | 1.036 | 1.901                     | 156.22                            | 0.02                                   | 7           |
| Bluetooth       | NR Band n66       | 0.045                 | 1.036 | 1.081                     | 167.04                            | 0.01                                   |             |
| 5 GHz WLAN MIMO | Bluetooth         | 0.865                 | 0.045 | 0.91                      | 42.74                             | 0.02                                   | 8           |
| 5 GHz WLAN MIMO | NR Band n25       | 0.865                 | 0.755 | 1.62                      | 152.16                            | 0.01                                   |             |
| Bluetooth       | NR Band n25       | 0.045                 | 0.755 | 0.8                       | 166.20                            | 0.00                                   | 9           |
| 5 GHz WLAN MIMO | Bluetooth         | 0.865                 | 0.045 | 0.91                      | 42.74                             | 0.02                                   |             |

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset | Page 275 of 305                                                                       |                                        |

**Table 12-25**  
**Back Side SAR to Peak Location Separation Ratio Plots**



|                                      |                                                                                                                                                                                                                                                                                                    |                               |                                 |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   | <div><b>PCTEST</b><br/><small>(Proud to be part of the Samsung)</small></div> <div>SAR EVALUATION REPORT</div> <div></div> |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                                 | DUT Type:<br>Portable Handset | Page 276 of 305                 |

## 12.7.2 Hotspot Back Side SPLSR Evaluation and Analysis

**Table 12-26**  
**Peak SAR Locations for Hotspot Back Side**

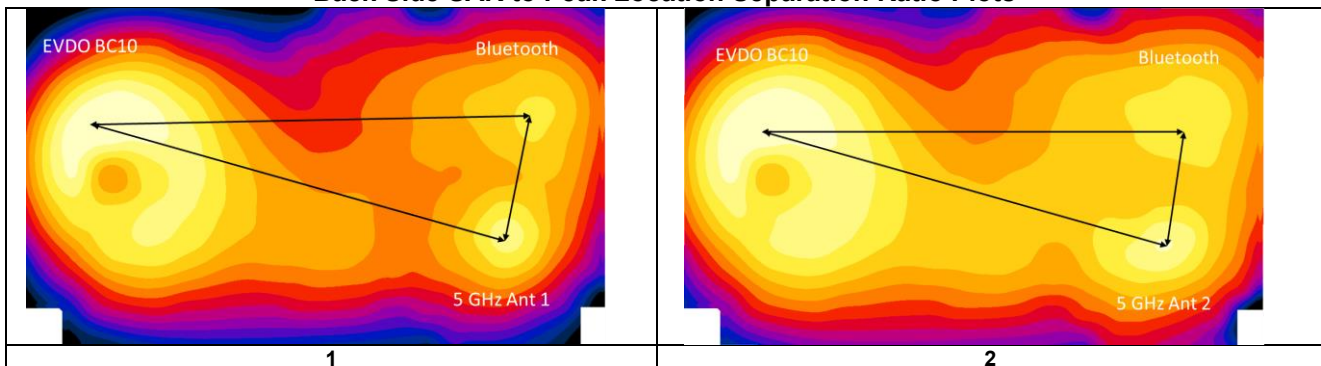
| Mode/Band          | x (mm) | y (mm) |
|--------------------|--------|--------|
| 5 GHz WLAN Ant 1   | -4.00  | 68.00  |
| 5 GHz WLAN Ant 2   | 1.00   | 64.00  |
| 5 GHz WLAN MIMO    | -3.00  | 69.00  |
| Bluetooth          | -42.00 | 78.00  |
| EVDO BC10 (§90S)   | -41.50 | -85.50 |
| EVDO BC0 (§22H)    | -41.50 | -73.50 |
| GPRS 850           | -41.50 | -73.50 |
| UMTS 850           | -41.50 | -72.00 |
| LTE Band 13        | -40.00 | -87.00 |
| LTE Band 14        | -40.00 | -87.00 |
| LTE Band 26 (Cell) | -43.00 | -78.50 |
| LTE Band 5 (Cell)  | -41.00 | -80.00 |
| LTE Band 25 (PCS)  | -11.00 | -82.50 |
| NR Band n5         | -46.00 | -78.50 |
| NR Band n66        | -23.50 | -85.50 |

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| <b>FCC ID:</b> A3LSMN986U                   |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 277 of 305                        |

**Table 12-27**  
**Hotspot Back Side SAR to Peak Location Separation Ratio Calculations**

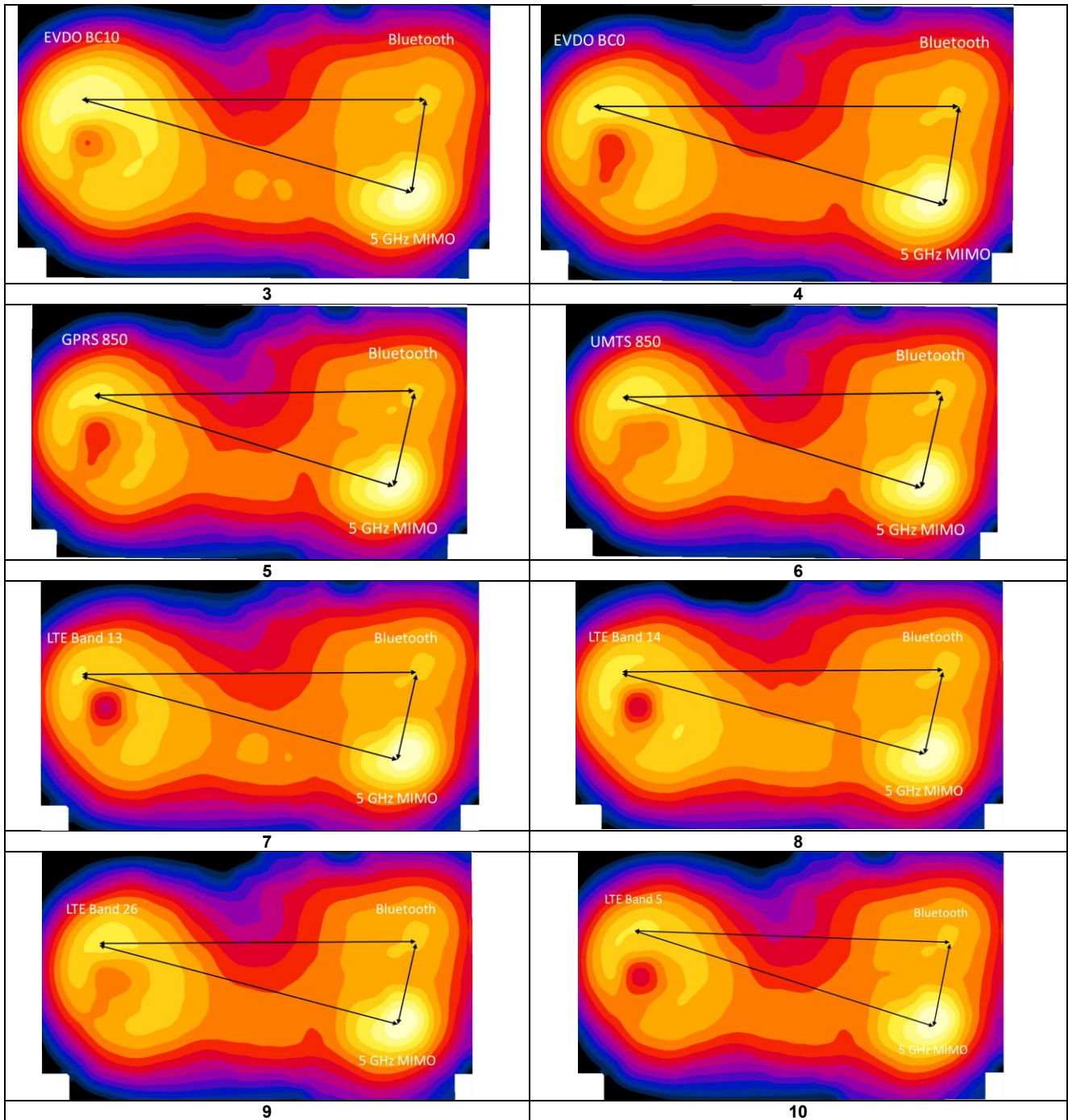
| Antenna Pair     |                    | Standalone SAR (W/kg) |       | Standalone SAR Sum (W/kg) | Peak SAR Separation Distance (mm) | SPLS Ratio            | Plot Number |
|------------------|--------------------|-----------------------|-------|---------------------------|-----------------------------------|-----------------------|-------------|
| Ant "a"          | Ant "b"            | a                     | b     | a+b                       | $D_{a,b}$                         | $(a+b)^{1.5}/D_{a,b}$ |             |
| 5 GHz WLAN Ant 1 | EVDO BC10 (\$90S)  | 0.589                 | 1.160 | 1.749                     | 158.01                            | 0.01                  | 1           |
| Bluetooth        | EVDO BC10 (\$90S)  | 0.075                 | 1.160 | 1.235                     | 163.50                            | 0.01                  |             |
| 5 GHz WLAN Ant 1 | Bluetooth          | 0.589                 | 0.075 | 0.664                     | 39.29                             | 0.01                  |             |
| 5 GHz WLAN Ant 2 | EVDO BC10 (\$90S)  | 0.590                 | 1.160 | 1.75                      | 155.42                            | 0.01                  | 2           |
| 5 GHz WLAN Ant 2 | Bluetooth          | 0.590                 | 0.075 | 0.665                     | 45.22                             | 0.01                  |             |
| Bluetooth        | EVDO BC10 (\$90S)  | 0.075                 | 1.160 | 1.235                     | 163.50                            | 0.01                  |             |
| 5 GHz WLAN MIMO  | EVDO BC10 (\$90S)  | 0.933                 | 1.160 | 2.093                     | 159.22                            | 0.02                  | 3           |
| Bluetooth        | EVDO BC10 (\$90S)  | 0.075                 | 1.160 | 1.235                     | 163.50                            | 0.01                  |             |
| 5 GHz WLAN MIMO  | Bluetooth          | 0.933                 | 0.075 | 1.008                     | 40.02                             | 0.03                  |             |
| 5 GHz WLAN MIMO  | EVDO BC0 (\$22H)   | 0.933                 | 0.889 | 1.822                     | 147.61                            | 0.02                  | 4           |
| Bluetooth        | EVDO BC0 (\$22H)   | 0.075                 | 0.889 | 0.964                     | 151.50                            | 0.01                  |             |
| 5 GHz WLAN MIMO  | Bluetooth          | 0.933                 | 0.075 | 1.008                     | 40.02                             | 0.03                  |             |
| 5 GHz WLAN MIMO  | GPRS 850           | 0.933                 | 0.856 | 1.789                     | 147.61                            | 0.02                  | 5           |
| Bluetooth        | GPRS 850           | 0.075                 | 0.856 | 0.931                     | 151.50                            | 0.01                  |             |
| 5 GHz WLAN MIMO  | Bluetooth          | 0.933                 | 0.075 | 1.008                     | 40.02                             | 0.03                  |             |
| 5 GHz WLAN MIMO  | UMTS 850           | 0.933                 | 0.721 | 1.654                     | 146.16                            | 0.01                  | 6           |
| Bluetooth        | UMTS 850           | 0.075                 | 0.721 | 0.796                     | 150.00                            | 0.00                  |             |
| 5 GHz WLAN MIMO  | Bluetooth          | 0.933                 | 0.075 | 1.008                     | 40.02                             | 0.03                  |             |
| 5 GHz WLAN MIMO  | LTE Band 13        | 0.933                 | 0.743 | 1.676                     | 160.33                            | 0.01                  | 7           |
| Bluetooth        | LTE Band 13        | 0.075                 | 0.743 | 0.818                     | 165.01                            | 0.00                  |             |
| 5 GHz WLAN MIMO  | Bluetooth          | 0.933                 | 0.075 | 1.008                     | 40.02                             | 0.03                  |             |
| 5 GHz WLAN MIMO  | LTE Band 14        | 0.933                 | 0.681 | 1.614                     | 160.33                            | 0.01                  | 8           |
| Bluetooth        | LTE Band 14        | 0.075                 | 0.681 | 0.756                     | 165.01                            | 0.00                  |             |
| 5 GHz WLAN MIMO  | Bluetooth          | 0.933                 | 0.075 | 1.008                     | 40.02                             | 0.03                  |             |
| 5 GHz WLAN MIMO  | LTE Band 26 (Cell) | 0.933                 | 0.693 | 1.626                     | 152.83                            | 0.01                  | 9           |
| Bluetooth        | LTE Band 26 (Cell) | 0.075                 | 0.693 | 0.768                     | 156.50                            | 0.00                  |             |
| 5 GHz WLAN MIMO  | Bluetooth          | 0.933                 | 0.075 | 1.008                     | 40.02                             | 0.03                  |             |
| 5 GHz WLAN MIMO  | LTE Band 5 (Cell)  | 0.933                 | 0.680 | 1.613                     | 153.77                            | 0.01                  | 10          |
| Bluetooth        | LTE Band 5 (Cell)  | 0.075                 | 0.680 | 0.755                     | 158.00                            | 0.00                  |             |
| 5 GHz WLAN MIMO  | Bluetooth          | 0.933                 | 0.075 | 1.008                     | 40.02                             | 0.03                  |             |
| 5 GHz WLAN MIMO  | LTE Band 25 (PCS)  | 0.933                 | 0.591 | 1.524                     | 151.71                            | 0.01                  | 11          |
| Bluetooth        | LTE Band 25 (PCS)  | 0.075                 | 0.591 | 0.666                     | 163.47                            | 0.00                  |             |
| 5 GHz WLAN MIMO  | Bluetooth          | 0.933                 | 0.075 | 1.008                     | 40.02                             | 0.03                  |             |
| 5 GHz WLAN MIMO  | NR Band n5         | 0.933                 | 0.676 | 1.609                     | 153.64                            | 0.01                  | 12          |
| Bluetooth        | NR Band n5         | 0.075                 | 0.676 | 0.751                     | 156.55                            | 0.00                  |             |
| 5 GHz WLAN MIMO  | Bluetooth          | 0.933                 | 0.075 | 1.008                     | 40.02                             | 0.03                  |             |
| 5 GHz WLAN MIMO  | NR Band n66        | 0.933                 | 0.735 | 1.668                     | 155.85                            | 0.01                  | 13          |
| Bluetooth        | NR Band n66        | 0.075                 | 0.735 | 0.81                      | 164.54                            | 0.00                  |             |
| 5 GHz WLAN MIMO  | Bluetooth          | 0.933                 | 0.075 | 1.008                     | 40.02                             | 0.03                  |             |

**Table 12-28**  
**Back Side SAR to Peak Location Separation Ratio Plots**

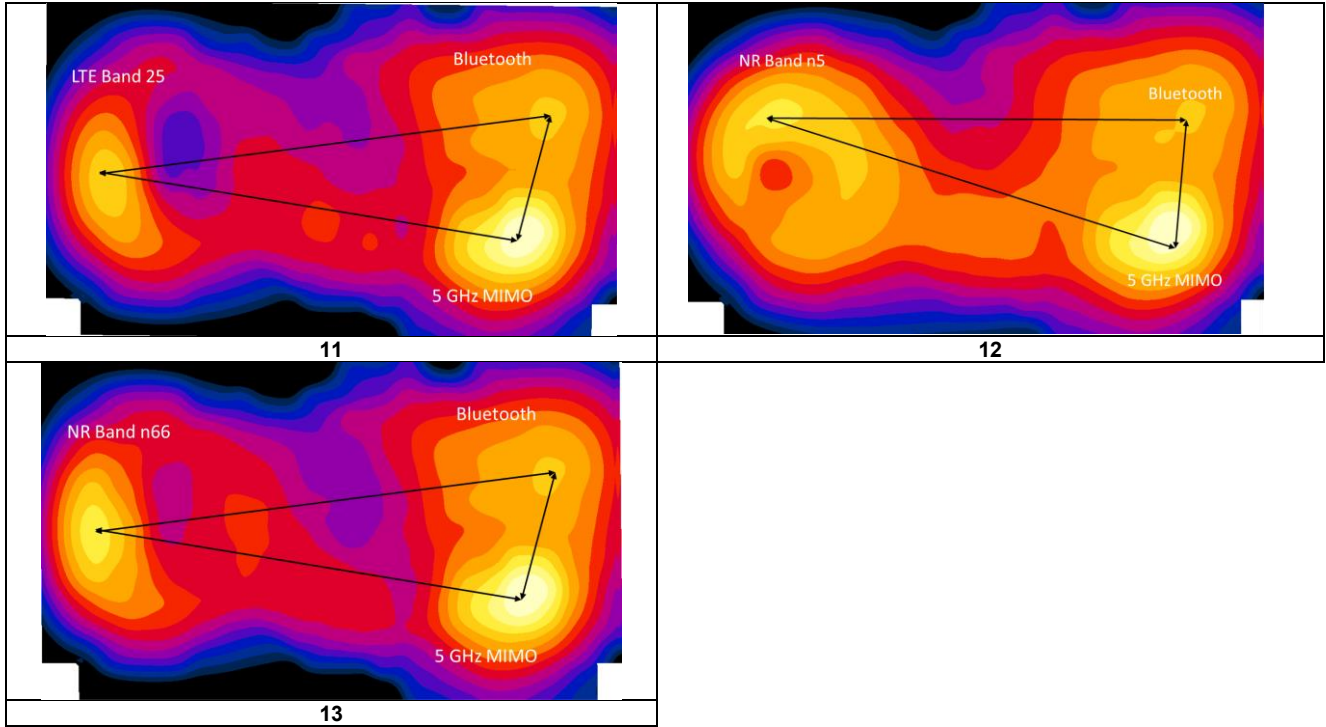


|                                      |                                                                                                                                                                                                                             |                               |                                                                                       |                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                          | DUT Type:<br>Portable Handset | Page 278 of 305                                                                       |                                 |





|                                      |                                                                                                                                                                                                                             |                               |  |                                                                                                                              |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--|------------------------------------------------------------------------------------------------------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of</small>  | SAR EVALUATION REPORT         |  |  <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                          | DUT Type:<br>Portable Handset |  | Page 279 of 305                                                                                                              |



|                                             |                                                                                                                                                                                                                      |                                      |                                                                                       |                                        |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  Samsung | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                            | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 280 of 305                        |



### 12.7.3 Phablet Back Side SPLSR Evaluation and Analysis

**Table 12-29**  
**Peak SAR Locations for Phablet Back Side**

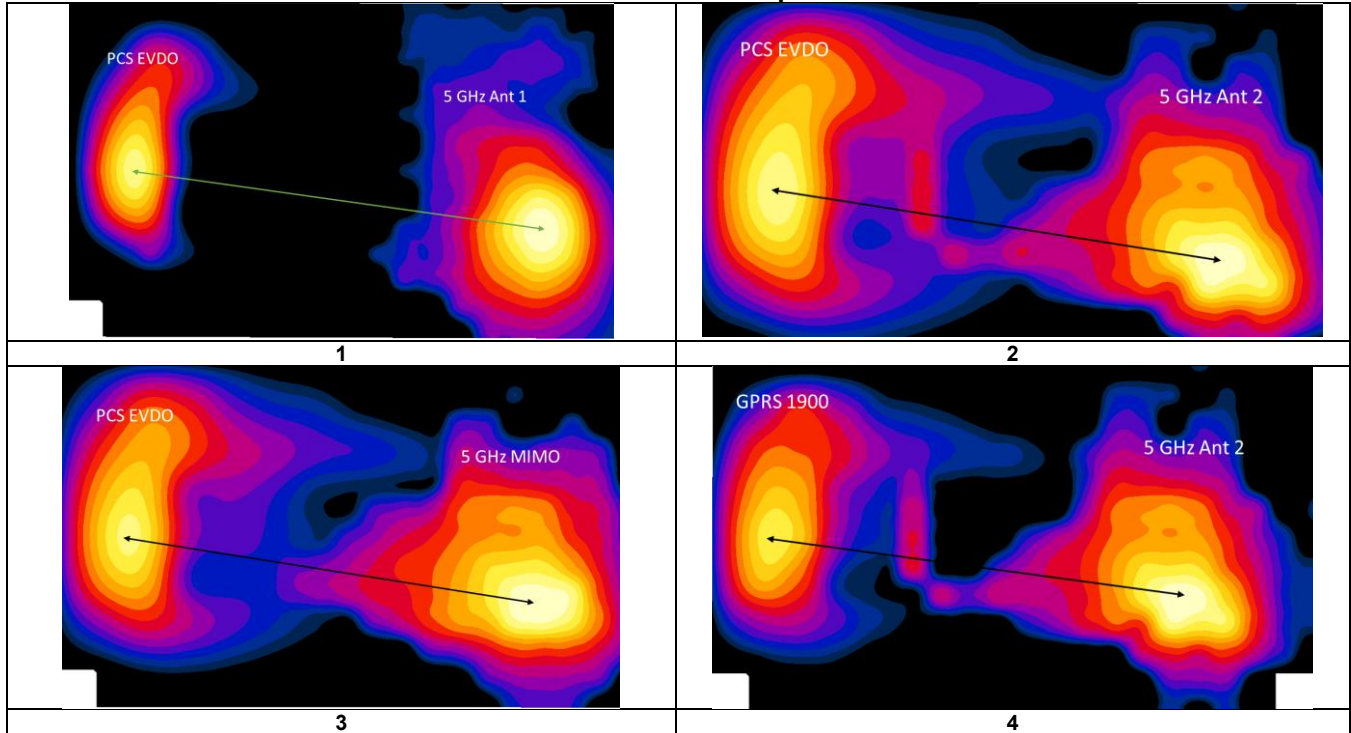
| Mode/Band         | x (mm) | y (mm) |
|-------------------|--------|--------|
| 5 GHz WLAN Ant 1  | 3.00   | 67.00  |
| 5 GHz WLAN Ant 2  | -0.10  | 62.80  |
| 5 GHz WLAN MIMO   | -4.00  | 64.00  |
| PCS EVDO          | -9.00  | -81.00 |
| GPRS 1900         | -22.30 | -83.60 |
| UMTS 1750         | -23.50 | -85.50 |
| UMTS 1900         | -20.80 | -76.90 |
| LTE Band 66 (AWS) | -20.50 | -85.50 |
| LTE Band 25 (PCS) | -12.50 | -81.00 |
| LTE Band 7        | -57.40 | -83.60 |
| LTE Band 30       | -26.20 | -78.00 |
| LTE Band 41       | -58.60 | -75.60 |
| NR Band n66       | -23.10 | -83.60 |
| NR Band n25       | -11.00 | -81.00 |

|                                             |                                                                                                                                                                                                                             |                                      |                                                                                       |                                        |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  <b>SAMSUNG</b> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                   | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 281 of 305                        |

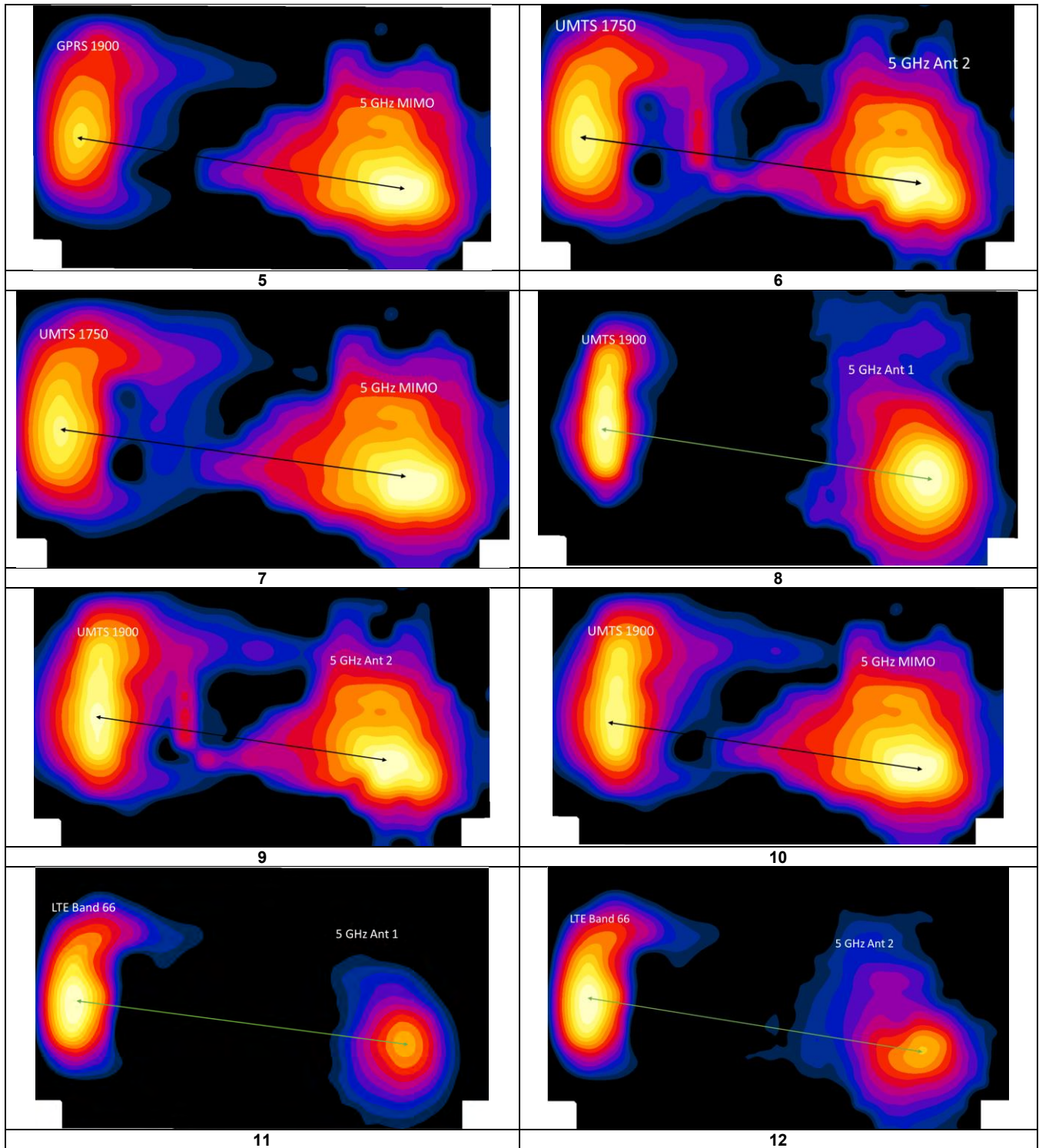
**Table 12-30**  
**Phablet Back Side SAR to Peak Location Separation Ratio Calculations**

| Antenna Pair     |                   | Standalone SAR (W/kg) |       | Standalone SAR Sum (W/kg) | Peak SAR Separation Distance (mm) | SPLS Ratio                             | Plot Number |
|------------------|-------------------|-----------------------|-------|---------------------------|-----------------------------------|----------------------------------------|-------------|
| Ant "a"          | Ant "b"           | a                     | b     | a+b                       | D <sub>a-b</sub>                  | (a+b) <sup>1.5</sup> /D <sub>a-b</sub> |             |
| 5 GHz WLAN Ant 1 | PCS EVDO          | 1.489                 | 2.988 | 4.477                     | 148.49                            | 0.06                                   | 1           |
| 5 GHz WLAN Ant 2 | PCS EVDO          | 2.193                 | 2.988 | 5.181                     | 144.08                            | 0.08                                   | 2           |
| 5 GHz WLAN MIMO  | PCS EVDO          | 2.765                 | 2.988 | 5.753                     | 145.09                            | 0.10                                   | 3           |
| 5 GHz WLAN Ant 2 | GPRS 1900         | 2.193                 | 1.902 | 4.095                     | 148.07                            | 0.06                                   | 4           |
| 5 GHz WLAN MIMO  | GPRS 1900         | 2.765                 | 1.902 | 4.667                     | 148.73                            | 0.07                                   | 5           |
| 5 GHz WLAN Ant 2 | UMTS 1750         | 2.193                 | 2.435 | 4.628                     | 150.13                            | 0.07                                   | 6           |
| 5 GHz WLAN MIMO  | UMTS 1750         | 2.765                 | 2.435 | 5.2                       | 150.77                            | 0.08                                   | 7           |
| 5 GHz WLAN Ant 1 | UMTS 1900         | 1.489                 | 2.670 | 4.159                     | 145.85                            | 0.06                                   | 8           |
| 5 GHz WLAN Ant 2 | UMTS 1900         | 2.193                 | 2.670 | 4.863                     | 141.23                            | 0.08                                   | 9           |
| 5 GHz WLAN MIMO  | UMTS 1900         | 2.765                 | 2.670 | 5.435                     | 141.90                            | 0.09                                   | 10          |
| 5 GHz WLAN Ant 1 | LTE Band 66 (AWS) | 1.489                 | 2.974 | 4.463                     | 154.30                            | 0.06                                   | 11          |
| 5 GHz WLAN Ant 2 | LTE Band 66 (AWS) | 2.193                 | 2.974 | 5.167                     | 149.70                            | 0.08                                   | 12          |
| 5 GHz WLAN MIMO  | LTE Band 66 (AWS) | 2.765                 | 2.974 | 5.739                     | 150.41                            | 0.09                                   | 13          |
| 5 GHz WLAN Ant 1 | LTE Band 25 (PCS) | 1.489                 | 2.626 | 4.115                     | 148.81                            | 0.06                                   | 14          |
| 5 GHz WLAN Ant 2 | LTE Band 25 (PCS) | 2.193                 | 2.626 | 4.819                     | 144.33                            | 0.07                                   | 15          |
| 5 GHz WLAN MIMO  | LTE Band 25 (PCS) | 2.765                 | 2.626 | 5.391                     | 145.25                            | 0.09                                   | 16          |
| 5 GHz WLAN Ant 1 | LTE Band 30       | 1.489                 | 2.909 | 4.398                     | 147.91                            | 0.06                                   | 17          |
| 5 GHz WLAN Ant 2 | LTE Band 30       | 2.193                 | 2.909 | 5.102                     | 143.20                            | 0.08                                   | 18          |
| 5 GHz WLAN MIMO  | LTE Band 30       | 2.765                 | 2.909 | 5.674                     | 143.72                            | 0.09                                   | 19          |
| 5 GHz WLAN MIMO  | LTE Band 7        | 2.765                 | 1.512 | 4.277                     | 156.96                            | 0.06                                   | 20          |
| 5 GHz WLAN MIMO  | LTE Band 41       | 2.765                 | 1.672 | 4.437                     | 149.90                            | 0.06                                   | 21          |
| 5 GHz WLAN Ant 1 | NR Band n66       | 1.489                 | 2.729 | 4.218                     | 152.84                            | 0.06                                   | 22          |
| 5 GHz WLAN Ant 2 | NR Band n66       | 2.193                 | 2.729 | 4.922                     | 148.20                            | 0.07                                   | 23          |
| 5 GHz WLAN MIMO  | NR Band n66       | 2.765                 | 2.729 | 5.494                     | 148.83                            | 0.09                                   | 24          |
| 5 GHz WLAN Ant 2 | NR Band n25       | 2.193                 | 2.341 | 4.534                     | 144.21                            | 0.07                                   | 25          |
| 5 GHz WLAN MIMO  | NR Band n25       | 2.765                 | 2.341 | 5.106                     | 145.17                            | 0.08                                   | 26          |

**Table 12-31**  
**Back Side SAR to Peak Location Separation Ratio Plots**

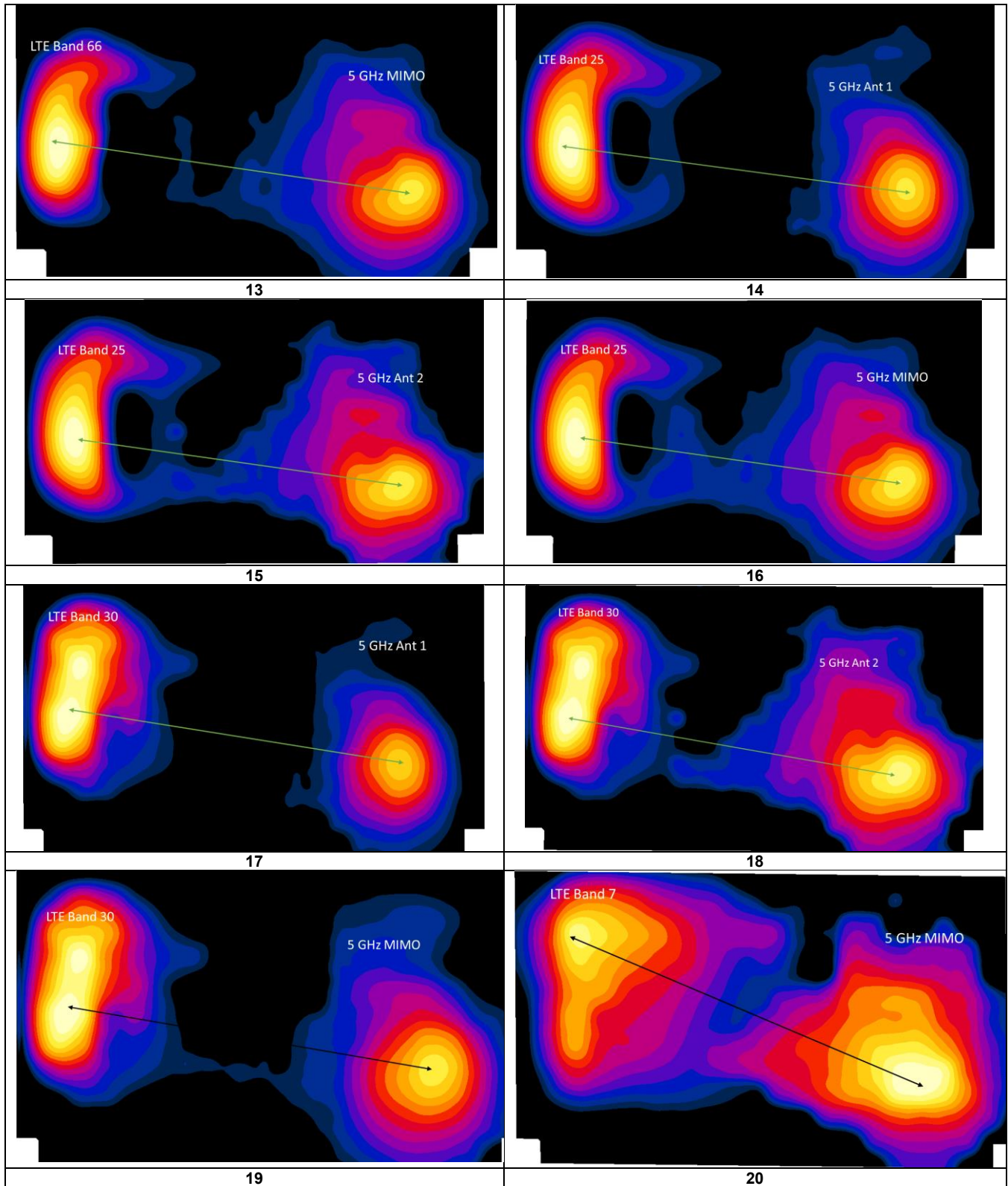


|                                      |                                                                                                                                                                                                                               |                               |                                        |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of</small>  | <b>SAR EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                            | DUT Type:<br>Portable Handset | Page 282 of 305                        |

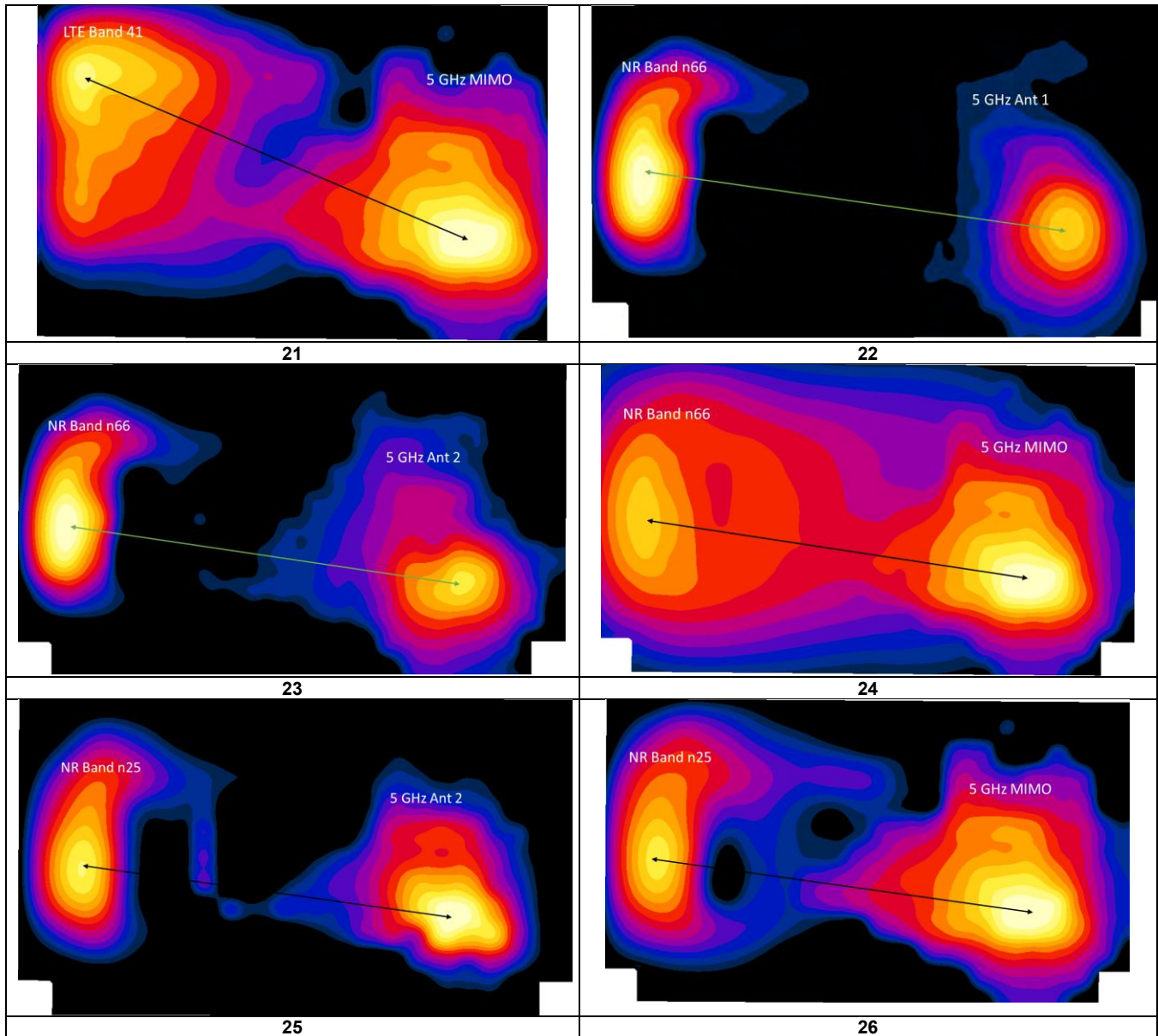


|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 283 of 305                        |





|                                      |                                                                                                                                                                                                                                                |                               |                       |                                                                                                                              |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of the</small>  <b>SAMSUNG</b> |                               | SAR EVALUATION REPORT |  <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                             | DUT Type:<br>Portable Handset |                       | Page 284 of 305                                                                                                              |



## 12.8 Simultaneous Transmission Conclusion

The above numerical summed SAR results and SPLSR analysis are sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528- 2013 Section 6.3.4.1.

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 285 of 305                        |

## 13 SAR MEASUREMENT VARIABILITY

### 13.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01r04, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

- 1) When the original highest measured SAR is  $\geq 0.80$  W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was  $> 1.20$  or when the original or repeated measurement was  $\geq 1.45$  W/kg ( $\sim 10\%$  from the 1g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was  $\geq 1.5$  W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is  $> 1.20$ .
- 4) Repeated measurements are not required when the original highest measured SAR is  $< 0.80$  W/kg
- 5) When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

**Table 13-1**  
**Body SAR Measurement Variability Results**

| BODY VARIABILITY RESULTS                 |           |        |                                     |                                     |                  |        |                      |                   |                       |       |                       |       |                       |
|------------------------------------------|-----------|--------|-------------------------------------|-------------------------------------|------------------|--------|----------------------|-------------------|-----------------------|-------|-----------------------|-------|-----------------------|
| Band                                     | FREQUENCY |        | Mode                                | Service                             | Data Rate (Mbps) | Side   | Spacing              | Measured SAR (1g) | 1st Repeated SAR (1g) | Ratio | 2nd Repeated SAR (1g) | Ratio | 3rd Repeated SAR (1g) |
|                                          | MHz       | Ch.    |                                     |                                     |                  |        |                      | (W/kg)            | (W/kg)                |       | (W/kg)                |       | (W/kg)                |
| 1750                                     | 1770.00   | 354000 | NR Band n66 (AWS), 20 MHz Bandwidth | DFT-S-OFDM QPSK, 1 RB, 1 RB Offset  | N/A              | bottom | 10 mm                | 1.080             | 1.070                 | 1.01  | N/A                   | N/A   | N/A                   |
| 1900                                     | 1905.00   | 381000 | NR Band n25 (PCS), 20 MHz Bandwidth | DFT-S-OFDM QPSK, 1 RB, 53 RB Offset | N/A              | bottom | 10 mm                | 1.150             | 1.100                 | 1.05  | N/A                   | N/A   | N/A                   |
| 2300                                     | 2310.00   | 27710  | LTE Band 30, 10 MHz Bandwidth       | QPSK, 1 RB, 0 RB Offset             | N/A              | bottom | 10 mm                | 0.911             | 0.908                 | 1.00  | N/A                   | N/A   | N/A                   |
| 3700                                     | 3690.00   | 56640  | LTE Band 48, ULCA, 20 MHz Bandwidth | QPSK, 1 RB, 0 RB Offset             | N/A              | top    | 10 mm                | 0.806             | 0.796                 | 1.01  | N/A                   | N/A   | N/A                   |
|                                          | 3670.20   | 56442  |                                     | QPSK, 1 RB, 99 RB Offset            |                  |        |                      |                   |                       |       |                       |       |                       |
| 5750                                     | 5795.00   | 159    | 802.11n, 40 MHz Bandwidth           | OFDM, MIMO                          | 27               | back   | 10 mm                | 0.854             | 0.854                 | 1.00  | N/A                   | N/A   | N/A                   |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |           |        |                                     |                                     |                  |        | Body                 |                   |                       |       |                       |       |                       |
| Spatial Peak                             |           |        |                                     |                                     |                  |        | 1.6 W/kg (mW/g)      |                   |                       |       |                       |       |                       |
| Uncontrolled Exposure/General Population |           |        |                                     |                                     |                  |        | averaged over 1 gram |                   |                       |       |                       |       |                       |

|                                      |                                                                                                                                                                                                                    |                               |                                        |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br>Proud to be part of the  | <b>SAR EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                 | DUT Type:<br>Portable Handset | Page 286 of 305                        |

**Table 13-2**  
**Phablet SAR Measurement Variability Results**

| PHABLET VARIABILITY RESULTS              |           |        |                                           |                           |                  |        |                        |                    |                        |       |                        |       |                        |       |
|------------------------------------------|-----------|--------|-------------------------------------------|---------------------------|------------------|--------|------------------------|--------------------|------------------------|-------|------------------------|-------|------------------------|-------|
| Band                                     | FREQUENCY |        | Mode                                      | Service                   | Data Rate (Mbps) | Side   | Spacing                | Measured SAR (10g) | 1st Repeated SAR (10g) | Ratio | 2nd Repeated SAR (10g) | Ratio | 3rd Repeated SAR (10g) | Ratio |
|                                          | MHz       | Ch.    |                                           |                           |                  |        |                        | (W/kg)             | (W/kg)                 |       | (W/kg)                 |       | (W/kg)                 |       |
| 1750                                     | 1720.00   | 132072 | LTE Band 66 (AWS), ULCA, 20 MHz Bandwidth | QPSK, 100 RB, 0 RB Offset | N/A              | bottom | 0 mm                   | 2.980              | 2.940                  | 1.01  | N/A                    | N/A   | N/A                    | N/A   |
|                                          | 1739.80   | 132270 |                                           | QPSK, 100 RB, 0 RB Offset |                  |        |                        |                    |                        |       |                        |       |                        |       |
| 1900                                     | 1905.00   | 26590  | LTE Band 25 (PCS), 20 MHz Bandwidth       | QPSK, 50 RB, 25 RB Offset | N/A              | bottom | 0 mm                   | 3.050              | 3.030                  | 1.01  | N/A                    | N/A   | N/A                    | N/A   |
| 2300                                     | 2310.00   | 27710  | LTE Band 30, 10 MHz Bandwidth             | QPSK, 1 RB, 49 RB Offset  | N/A              | back   | 0 mm                   | 2.640              | 2.620                  | 1.01  | N/A                    | N/A   | N/A                    | N/A   |
| 2600                                     | 2636.50   | 41055  | LTE Band 41, ULCA, 20 MHz Bandwidth       | QPSK, 50 RB, 0 RB Offset  | N/A              | bottom | 0 mm                   | 2.530              | 2.470                  | 1.02  | N/A                    | N/A   | N/A                    | N/A   |
|                                          | 2616.70   | 40857  |                                           | QPSK, 50 RB, 50 RB Offset |                  |        |                        |                    |                        |       |                        |       |                        |       |
| 5250                                     | 5300.00   | 60     | 802.11n, 20 MHz Bandwidth                 | OFDM, MIMO                | 13               | back   | 0 mm                   | 2.520              | 2.360                  | 1.07  | N/A                    | N/A   | N/A                    | N/A   |
| 5600                                     | 5620.00   | 124    | 802.11n, 20 MHz Bandwidth                 | OFDM, MIMO                | 13               | back   | 0 mm                   | 2.450              | 2.260                  | 1.08  | N/A                    | N/A   | N/A                    | N/A   |
| 5750                                     | 5720.00   | 144    | 802.11n, 20 MHz Bandwidth                 | OFDM, MIMO                | 13               | back   | 0 mm                   | 2.420              | 2.420                  | 1.00  | N/A                    | N/A   | N/A                    | N/A   |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |           |        |                                           |                           |                  |        | Phablet                |                    |                        |       |                        |       |                        |       |
| Spatial Peak                             |           |        |                                           |                           |                  |        | 4.0 W/kg (mW/g)        |                    |                        |       |                        |       |                        |       |
| Uncontrolled Exposure/General Population |           |        |                                           |                           |                  |        | averaged over 10 grams |                    |                        |       |                        |       |                        |       |

## 13.2 Measurement Uncertainty

The measured SAR was <1.5 W/kg for 1g and <3.75 W/kg for 10g for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE 1528-2013 was not required.

|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset | Page 287 of 305                                                                       |                                        |



## 14 ADDITIONAL TESTING PER FCC GUIDANCE

### 14.1 Tuner Testing

Per April 2019 TCB Workshop Notes, the following test procedures were followed to demonstrate that the SAR results in Section 11 represented the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR was measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Per FCC Guidance, during NR testing the device was configured with the tuner state selected by the device in LTE mode with auto-tune active at the same frequency. Additional single point SAR time-sweep measurements were evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values. The additional tuner hardware has no influence on the antenna characteristics, other than impedance matching.

To evaluate all the tuner states, the 120 tuner states were divided among the aggregate band, mode and exposure combinations. Single point time-sweep measurements were performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state was able to be established remotely so that the device was not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe remained stationary at the same position throughout the entire series of single point measurements for each combination. When the single point SAR or 1g SAR was  $> 1.2$  W/kg for a particular band/mode/exposure condition, point SAR measurements were made for all 120 states.

The operational description contains more information about the design and implementation of the dynamic antenna tuning.

|                                             |                                                                                                                                                     |                                      |                                                                                       |                                        |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the Samsung</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                           | <b>DUT Type:</b><br>Portable Handset | Page 288 of 305                                                                       |                                        |



**Table 14-1**  
**UMTS/CDMA Supplemental Head SAR Data**

| Supplemental Head SAR Data         |            |                                    |             |                                    |             |                                    |            |                                    |            |                                    |             |
|------------------------------------|------------|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|------------|------------------------------------|------------|------------------------------------|-------------|
| UMTS B5                            |            | UMTS B4                            |             | UMTS B2                            |             | CDMA BC10                          |            | CDMA BC0                           |            | CDMA BC1                           |             |
| RMC                                |            | RMC                                |             | RMC                                |             | EVDO                               |            | EVDO                               |            | EVDO                               |             |
| Test Position                      | Left Cheek | Test Position                      | Right Cheek | Test Position                      | Right Cheek | Test Position                      | Left Cheek | Test Position                      | Left Cheek | Test Position                      | Right Cheek |
| Frequency (MHz)                    | 836.6      | Frequency (MHz)                    | 1732.4      | Frequency (MHz)                    | 1880.0      | Frequency (MHz)                    | 820.1      | Frequency (MHz)                    | 836.52     | Frequency (MHz)                    | 1880.0      |
| Channel                            | 4183       | Channel                            | 1412        | Channel                            | 9400        | Channel                            | 564        | Channel                            | 384        | Channel                            | 600         |
| Measured 1g SAR (W/kg)             | 0.142      | Measured 1g SAR (W/kg)             | 0.129       | Measured 1g SAR (W/kg)             | 0.094       | Measured 1g SAR (W/kg)             | 0.188      | Measured 1g SAR (W/kg)             | 0.150      | Measured 1g SAR (W/kg)             | 0.104       |
| Average Value of Time Sweep (W/kg) |            | Average Value of Time Sweep (W/kg) |             | Average Value of Time Sweep (W/kg) |             | Average Value of Time Sweep (W/kg) |            | Average Value of Time Sweep (W/kg) |            | Average Value of Time Sweep (W/kg) |             |
| Auto-tune (State 41)               | 0.186      | Auto-tune (State 108)              | 0.178       | Auto-tune (State 26)               | 0.134       | Auto-tune (State 27)               | 0.236      | Auto-tune (State 41)               | 0.205      | Auto-tune (State 26)               | 0.151       |
| Default (State 0)                  | 0.169      | Default (State 0)                  | 0.173       | Default (State 0)                  | 0.124       | Default (State 0)                  | 0.241      | Default (State 0)                  | 0.199      | Default (State 0)                  | 0.143       |
| State 2                            | 0.160      | State 22                           | 0.119       | State 26                           | 0.130       | State 27                           | 0.245      | State 41                           | 0.210      | State 1                            | 0.139       |
| State 5                            | 0.143      | State 27                           | 0.168       | State 50                           | 0.051       | State 75                           | 0.019      | State 99                           | 0.058      | State 4                            | 0.133       |
| State 9                            | 0.053      | State 32                           | 0.166       | State 55                           | 0.017       | State 79                           | 0.221      | State 105                          | 0.178      | State 7                            | 0.116       |
| State 12                           | 0.014      | State 37                           | 0.135       | State 59                           | 0.012       | State 81                           | 0.199      | State 111                          | 0.175      | State 10                           | 0.078       |
| State 41                           | 0.178      | State 108                          | 0.174       | State 64                           | 0.000       | State 87                           | 0.204      | State 116                          | 0.200      | State 26                           | 0.145       |

**Table 14-2**  
**LTE Supplemental Head SAR Data**

| Supplemental Head SAR Data               |            |                                          |            |                                           |            |                                          |            |                                           |            |                                            |            |                                            |             |                                            |             |
|------------------------------------------|------------|------------------------------------------|------------|-------------------------------------------|------------|------------------------------------------|------------|-------------------------------------------|------------|--------------------------------------------|------------|--------------------------------------------|-------------|--------------------------------------------|-------------|
| LTE B71                                  |            | LTE B12                                  |            | LTE B13                                   |            | LTE B14                                  |            | LTE B5                                    |            | LTE B26                                    |            | LTE B66/4                                  |             | LTE B25/2                                  |             |
| QPSK, 20MHz Bandwidth, 1 RB, 0 RB Offset |            | QPSK, 10MHz Bandwidth, 1 RB, 0 RB Offset |            | QPSK, 10MHz Bandwidth, 1 RB, 25 RB Offset |            | QPSK, 10MHz Bandwidth, 1 RB, 0 RB Offset |            | QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset |            | QPSK, 15 MHz Bandwidth, 1 RB, 36 RB Offset |            | QPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset |             | QPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset |             |
| Test Position                            | Left Cheek | Test Position                            | Left Cheek | Test Position                             | Left Cheek | Test Position                            | Left Cheek | Test Position                             | Left Cheek | Test Position                              | Left Cheek | Test Position                              | Right Cheek | Test Position                              | Right Cheek |
| Frequency (MHz)                          | 680.5      | Frequency (MHz)                          | 707.5      | Frequency (MHz)                           | 752.0      | Frequency (MHz)                          | 753.0      | Frequency (MHz)                           | 836.5      | Frequency (MHz)                            | 831.5      | Frequency (MHz)                            | 1720.0      | Frequency (MHz)                            | 1860.0      |
| Channel                                  | 133207     | Channel                                  | 23065      | Channel                                   | 23230      | Channel                                  | 23330      | Channel                                   | 20525      | Channel                                    | 26825      | Channel                                    | 132072      | Channel                                    | 25140       |
| Measured 1g SAR (W/kg)                   | 0.106      | Measured 1g SAR (W/kg)                   | 0.111      | Measured 1g SAR (W/kg)                    | 0.213      | Measured 1g SAR (W/kg)                   | 0.158      | Measured 1g SAR (W/kg)                    | 0.159      | Measured 1g SAR (W/kg)                     | 0.147      | Measured 1g SAR (W/kg)                     | 0.119       | Measured 1g SAR (W/kg)                     | 0.111       |
| Average Value of Time Sweep (W/kg)       |            | Average Value of Time Sweep (W/kg)       |            | Average Value of Time Sweep (W/kg)        |            | Average Value of Time Sweep (W/kg)       |            | Average Value of Time Sweep (W/kg)        |            | Average Value of Time Sweep (W/kg)         |            | Average Value of Time Sweep (W/kg)         |             | Average Value of Time Sweep (W/kg)         |             |
| Auto-tune (State 19)                     | 0.125      | Auto-tune (State 1)                      | 0.154      | Auto-tune (State 112)                     | 0.282      | Auto-tune (State 52)                     | 0.257      | Auto-tune (State 66)                      | 0.209      | Auto-tune (State 66)                       | 0.185      | Auto-tune (State 108)                      | 0.181       | Auto-tune (State 109)                      | 0.160       |
| Default (State 0)                        | 0.101      | Default (State 0)                        | 0.146      | Default (State 0)                         | 0.265      | Default (State 0)                        | 0.253      | Default (State 0)                         | 0.145      | Default (State 0)                          | 0.123      | Default (State 0)                          | 0.184       | Default (State 0)                          | 0.155       |
| State 19                                 | 0.121      | State 1                                  | 0.156      | State 1                                   | 0.270      | State 1                                  | 0.269      | State 3                                   | 0.164      | State 15                                   | 0.155      | State 39                                   | 0.176       | State 60                                   | 0.011       |
| State 24                                 | 0.061      | State 53                                 | 0.108      | State 80                                  | 0.262      | State 52                                 | 0.256      | State 6                                   | 0.188      | State 16                                   | 0.160      | State 43                                   | 0.171       | State 66                                   | 0.020       |
| State 29                                 | 0.060      | State 56                                 | 0.091      | State 83                                  | 0.191      | State 107                                | 0.230      | State 8                                   | 0.145      | State 25                                   | 0.017      | State 45                                   | 0.167       | State 69                                   | 0.016       |
| State 34                                 | 0.071      | State 67                                 | 0.067      | State 93                                  | 0.261      | State 114                                | 0.254      | State 13                                  | 0.196      | State 30                                   | 0.136      | State 47                                   | 0.160       | State 75                                   | 0.001       |
| State 46                                 | 0.076      | State 72                                 | 0.052      | State 112                                 | 0.280      | State 119                                | 0.234      | State 66                                  | 0.217      | State 66                                   | 0.179      | State 108                                  | 0.183       | State 109                                  | 0.164       |

**Table 14-3**  
**NR Supplemental Head SAR Data**

| Supplemental Head SAR Data                            |            |                                                       |            |                                                        |            |                                                        |             |                                                        |             |
|-------------------------------------------------------|------------|-------------------------------------------------------|------------|--------------------------------------------------------|------------|--------------------------------------------------------|-------------|--------------------------------------------------------|-------------|
| NR Band n71                                           |            | NR Band n12                                           |            | NR Band n5                                             |            | NR Band n66                                            |             | NR Band n25/n2                                         |             |
| DFT-s-OFDM QPSK, 20MHz Bandwidth, 50 RB, 28 RB Offset |            | DFT-s-OFDM QPSK, 15 MHz Bandwidth, 1 RB, 77 RB Offset |            | DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset |            | DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset |             | DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset |             |
| Test Position                                         | Left Cheek | Test Position                                         | Left Cheek | Test Position                                          | Left Cheek | Test Position                                          | Right Cheek | Test Position                                          | Right Cheek |
| Frequency (MHz)                                       | 680.5      | Frequency (MHz)                                       | 707.5      | Frequency (MHz)                                        | 836.5      | Frequency (MHz)                                        | 1720.0      | Frequency (MHz)                                        | 1905.0      |
| Channel                                               | 136100     | Channel                                               | 141500     | Channel                                                | 167300     | Channel                                                | 344000      | Channel                                                | 381000      |
| Measured 1g SAR (W/kg)                                | 0.105      | Measured 1g SAR (W/kg)                                | 0.110      | Measured 1g SAR (W/kg)                                 | 0.149      | Measured 1g SAR (W/kg)                                 | 0.120       | Measured 1g SAR (W/kg)                                 | 0.129       |
| Average Value of Time Sweep (W/kg)                    |            | Average Value of Time Sweep (W/kg)                    |            | Average Value of Time Sweep (W/kg)                     |            | Average Value of Time Sweep (W/kg)                     |             | Average Value of Time Sweep (W/kg)                     |             |
| Auto-tune (State 19)                                  | 0.136      | Auto-tune (State 1)                                   | 0.144      | Auto-tune (State 66)                                   | 0.201      | Auto-tune (State 108)                                  | 0.170       | Auto-tune (State 109)                                  | 0.187       |
| Default (State 0)                                     | 0.105      | Default (State 0)                                     | 0.137      | Default (State 0)                                      | 0.141      | Default (State 0)                                      | 0.169       | Default (State 0)                                      | 0.186       |
| State 19                                              | 0.136      | State 1                                               | 0.144      | State 48                                               | 0.081      | State 11                                               | 0.113       | State 14                                               | 0.164       |
| State 85                                              | 0.028      | State 96                                              | 0.058      | State 54                                               | 0.203      | State 21                                               | 0.118       | State 23                                               | 0.076       |
| State 89                                              | 0.007      | State 104                                             | 0.132      | State 66                                               | 0.201      | State 36                                               | 0.142       | State 33                                               | 0.167       |
| State 95                                              | 0.053      | State 109                                             | 0.074      | State 68                                               | 0.198      | State 40                                               | 0.163       | State 41                                               | 0.175       |
| State 102                                             | 0.008      | State 118                                             | 0.120      | State 78                                               | 0.134      | State 108                                              | 0.170       | State 109                                              | 0.187       |

|                                             |                                                                                                                                                                                                  |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          | <br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                        | <b>DUT Type:</b><br>Portable Handset | Page 289 of 305                                                                       |                                        |

**Table 14-4**  
**UMTS/CDMA Supplemental Body SAR Data**

| LIMITS B5                          |       | LIMITS B4                          |        | LIMITS B2                          |        | CDMA BC10                          |       | CDMA BC0                           |        | CDMA BC1                           |         |
|------------------------------------|-------|------------------------------------|--------|------------------------------------|--------|------------------------------------|-------|------------------------------------|--------|------------------------------------|---------|
| RMC                                |       | RMC                                |        | RMC                                |        | EVDO                               |       | EVDO                               |        | EVDO                               |         |
| Test Position                      | Back  | Test Position                      | Bottom | Test Position                      | Bottom | Test Position                      | Back  | Test Position                      | Back   | Test Position                      | Bottom  |
| Spacing                            | 10 mm | Spacing                            | 10 mm  | Spacing                            | 10 mm  | Spacing                            | 10 mm | Spacing                            | 10 mm  | Spacing                            | 10 mm   |
| Frequency (MHz)                    | 836.6 | Frequency (MHz)                    | 1732.4 | Frequency (MHz)                    | 1907.6 | Frequency (MHz)                    | 820.1 | Frequency (MHz)                    | 836.52 | Frequency (MHz)                    | 1908.75 |
| Channel                            | 4183  | Channel                            | 1412   | Channel                            | 9538   | Channel                            | 564   | Channel                            | 384    | Channel                            | 1175    |
| Measured 1g SAR (W/kg)             | 0.628 | Measured 1g SAR (W/kg)             | 0.991  | Measured 1g SAR (W/kg)             | 0.975  | Measured 1g SAR (W/kg)             | 0.799 | Measured 1g SAR (W/kg)             | 0.641  | Measured 1g SAR (W/kg)             | 1.080   |
| Average Value of Time Sweep (W/kg) |       | Average Value of Time Sweep (W/kg) |        | Average Value of Time Sweep (W/kg) |        | Average Value of Time Sweep (W/kg) |       | Average Value of Time Sweep (W/kg) |        | Average Value of Time Sweep (W/kg) |         |
| Auto-tune (State 27)               | 1.021 | Auto-tune (State 9)                | 1.537  | Auto-tune (State 109)              | 1.681  | Auto-tune (State 27)               | 1.001 | Auto-tune (State 27)               | 1.023  | Auto-tune (State 35)               | 1.781   |
| Default (State 0)                  | 1.016 | Default (State 0)                  | 1.240  | Default (State 0)                  | 1.592  | Default (State 0)                  | 0.994 | Default (State 0)                  | 1.004  | Default (State 0)                  | 1.893   |
| State 16                           | 0.924 | State 0                            | 1.240  | State 0                            | 1.592  | State 17                           | 0.812 | State 27                           | 1.014  | State 0                            | 1.893   |
| State 26                           | 0.861 | State 1                            | 1.295  | State 1                            | 1.551  | State 20                           | 0.526 | State 31                           | 0.981  | State 1                            | 1.890   |
| State 27                           | 1.031 | State 2                            | 1.308  | State 2                            | 1.539  | State 27                           | 1.001 | State 42                           | 1.015  | State 2                            | 1.890   |
| State 38                           | 0.071 | State 3                            | 1.32   | State 3                            | 1.525  | State 28                           | 0.979 | State 44                           | 0.914  | State 3                            | 1.895   |
| State 51                           | 0.078 | State 4                            | 1.342  | State 4                            | 1.498  | State 49                           | 0.135 | State 57                           | 0.693  | State 4                            | 1.878   |
|                                    |       | State 5                            | 1.347  | State 5                            | 1.501  |                                    |       |                                    |        | State 5                            | 1.884   |
|                                    |       | State 6                            | 1.41   | State 6                            | 1.425  |                                    |       |                                    |        | State 6                            | 1.867   |
|                                    |       | State 7                            | 1.453  | State 7                            | 1.37   |                                    |       |                                    |        | State 7                            | 1.843   |
|                                    |       | State 8                            | 1.505  | State 8                            | 1.285  |                                    |       |                                    |        | State 8                            | 1.785   |
|                                    |       | State 9                            | 1.539  | State 9                            | 1.144  |                                    |       |                                    |        | State 9                            | 1.682   |
|                                    |       | State 10                           | 1.535  | State 10                           | 1.333  |                                    |       |                                    |        | State 10                           | 1.562   |
|                                    |       | State 11                           | 1.451  | State 11                           | 0.87   |                                    |       |                                    |        | State 11                           | 1.398   |
|                                    |       | State 12                           | 1.197  | State 12                           | 0.651  |                                    |       |                                    |        | State 12                           | 1.074   |
|                                    |       | State 13                           | 1.204  | State 13                           | 1.409  |                                    |       |                                    |        | State 13                           | 1.667   |
|                                    |       | State 14                           | 1.268  | State 14                           | 1.361  |                                    |       |                                    |        | State 14                           | 1.661   |
|                                    |       | State 15                           | 1.284  | State 15                           | 1.343  |                                    |       |                                    |        | State 15                           | 1.688   |
|                                    |       | State 16                           | 1.294  | State 16                           | 1.321  |                                    |       |                                    |        | State 16                           | 1.686   |
|                                    |       | State 17                           | 1.318  | State 17                           | 1.293  |                                    |       |                                    |        | State 17                           | 1.697   |
|                                    |       | State 18                           | 1.325  | State 18                           | 1.288  |                                    |       |                                    |        | State 18                           | 1.692   |
|                                    |       | State 19                           | 1.381  | State 19                           | 1.198  |                                    |       |                                    |        | State 19                           | 1.669   |
|                                    |       | State 20                           | 1.417  | State 20                           | 1.138  |                                    |       |                                    |        | State 20                           | 1.633   |
|                                    |       | State 21                           | 1.455  | State 21                           | 1.046  |                                    |       |                                    |        | State 21                           | 1.564   |
|                                    |       | State 22                           | 1.464  | State 22                           | 0.902  |                                    |       |                                    |        | State 22                           | 1.438   |
|                                    |       | State 23                           | 1.423  | State 23                           | 0.762  |                                    |       |                                    |        | State 23                           | 1.323   |
|                                    |       | State 24                           | 1.294  | State 24                           | 0.653  |                                    |       |                                    |        | State 24                           | 1.132   |
|                                    |       | State 25                           | 0.987  | State 25                           | 0.478  |                                    |       |                                    |        | State 25                           | 0.844   |
|                                    |       | State 26                           | 1.102  | State 26                           | 1.634  |                                    |       |                                    |        | State 26                           | 1.94    |
|                                    |       | State 27                           | 1.156  | State 27                           | 1.613  |                                    |       |                                    |        | State 27                           | 1.942   |
|                                    |       | State 28                           | 1.17   | State 28                           | 1.607  |                                    |       |                                    |        | State 28                           | 1.954   |
|                                    |       | State 29                           | 1.184  | State 29                           | 1.593  |                                    |       |                                    |        | State 29                           | 1.955   |
|                                    |       | State 30                           | 1.212  | State 30                           | 1.573  |                                    |       |                                    |        | State 30                           | 1.949   |
|                                    |       | State 31                           | 1.215  | State 31                           | 1.575  |                                    |       |                                    |        | State 31                           | 1.942   |
|                                    |       | State 32                           | 1.28   | State 32                           | 1.523  |                                    |       |                                    |        | State 32                           | 1.955   |
|                                    |       | State 33                           | 1.311  | State 33                           | 1.478  |                                    |       |                                    |        | State 33                           | 1.992   |
|                                    |       | State 34                           | 1.4    | State 34                           | 1.401  |                                    |       |                                    |        | State 34                           | 1.924   |
|                                    |       | State 35                           | 1.483  | State 35                           | 1.274  |                                    |       |                                    |        | State 35                           | 1.824   |
|                                    |       | State 36                           | 1.521  | State 36                           | 1.157  |                                    |       |                                    |        | State 36                           | 1.702   |
|                                    |       | State 37                           | 1.505  | State 37                           | 0.995  |                                    |       |                                    |        | State 37                           | 1.513   |
|                                    |       | State 38                           | 1.328  | State 38                           | 0.769  |                                    |       |                                    |        | State 38                           | 1.208   |
|                                    |       | State 39                           | 1.179  | State 39                           | 1.554  |                                    |       |                                    |        | State 39                           | 1.821   |
|                                    |       | State 40                           | 1.233  | State 40                           | 1.518  |                                    |       |                                    |        | State 40                           | 1.824   |
|                                    |       | State 41                           | 1.25   | State 41                           | 1.505  |                                    |       |                                    |        | State 41                           | 1.825   |
|                                    |       | State 42                           | 1.261  | State 42                           | 1.496  |                                    |       |                                    |        | State 42                           | 1.814   |
|                                    |       | State 43                           | 1.286  | State 43                           | 1.463  |                                    |       |                                    |        | State 43                           | 1.803   |
|                                    |       | State 44                           | 1.286  | State 44                           | 1.466  |                                    |       |                                    |        | State 44                           | 1.82    |
|                                    |       | State 45                           | 1.351  | State 45                           | 1.386  |                                    |       |                                    |        | State 45                           | 1.792   |
|                                    |       | State 46                           | 1.394  | State 46                           | 1.326  |                                    |       |                                    |        | State 46                           | 1.776   |
|                                    |       | State 47                           | 1.449  | State 47                           | 1.237  |                                    |       |                                    |        | State 47                           | 1.723   |
|                                    |       | State 48                           | 1.498  | State 48                           | 1.095  |                                    |       |                                    |        | State 48                           | 1.619   |
|                                    |       | State 49                           | 1.499  | State 49                           | 0.975  |                                    |       |                                    |        | State 49                           | 1.509   |
|                                    |       | State 50                           | 1.432  | State 50                           | 0.822  |                                    |       |                                    |        | State 50                           | 1.315   |
|                                    |       | State 51                           | 1.192  | State 51                           | 0.621  |                                    |       |                                    |        | State 51                           | 1.023   |
|                                    |       | State 52                           | 0.261  | State 52                           | 0.266  |                                    |       |                                    |        | State 52                           | 0.34    |
|                                    |       | State 53                           | 0.247  | State 53                           | 0.26   |                                    |       |                                    |        | State 53                           | 0.319   |
|                                    |       | State 54                           | 0.238  | State 54                           | 0.25   |                                    |       |                                    |        | State 54                           | 0.305   |
|                                    |       | State 55                           | 0.23   | State 55                           | 0.24   |                                    |       |                                    |        | State 55                           | 0.291   |
|                                    |       | State 56                           | 0.218  | State 56                           | 0.236  |                                    |       |                                    |        | State 56                           | 0.271   |
|                                    |       | State 57                           | 0.221  | State 57                           | 0.198  |                                    |       |                                    |        | State 57                           | 0.278   |
|                                    |       | State 58                           | 0.189  | State 58                           | 0.198  |                                    |       |                                    |        | State 58                           | 0.276   |
|                                    |       | State 59                           | 0.17   | State 59                           | 0.179  |                                    |       |                                    |        | State 59                           | 0.199   |
|                                    |       | State 60                           | 0.141  | State 60                           | 0.146  |                                    |       |                                    |        | State 60                           | 0.158   |
|                                    |       | State 61                           | 0.108  | State 61                           | 0.11   |                                    |       |                                    |        | State 61                           | 0.114   |
|                                    |       | State 62                           | 0.086  | State 62                           | 0.086  |                                    |       |                                    |        | State 62                           | 0.087   |
|                                    |       | State 63                           | 0.061  | State 63                           | 0.06   |                                    |       |                                    |        | State 63                           | 0.059   |
|                                    |       | State 64                           | 0.037  | State 64                           | 0.035  |                                    |       |                                    |        | State 64                           | 0.033   |
|                                    |       | State 65                           | 0.236  | State 65                           | 0.253  |                                    |       |                                    |        | State 65                           | 0.32    |
|                                    |       | State 66                           | 0.211  | State 66                           | 0.232  |                                    |       |                                    |        | State 66                           | 0.285   |
|                                    |       | State 67                           | 0.202  | State 67                           | 0.22   |                                    |       |                                    |        | State 67                           | 0.27    |
|                                    |       | State 68                           | 0.194  | State 68                           | 0.209  |                                    |       |                                    |        | State 68                           | 0.256   |
|                                    |       | State 69                           | 0.161  | State 69                           | 0.194  |                                    |       |                                    |        | State 69                           | 0.244   |
|                                    |       | State 70                           | 0.181  | State 70                           | 0.2    |                                    |       |                                    |        | State 70                           | 0.247   |
|                                    |       | State 71                           | 0.15   | State 71                           | 0.161  |                                    |       |                                    |        | State 71                           | 0.188   |
|                                    |       | State 72                           | 0.132  | State 72                           | 0.141  |                                    |       |                                    |        | State 72                           | 0.161   |
|                                    |       | State 73                           | 0.107  | State 73                           | 0.112  |                                    |       |                                    |        | State 73                           | 0.125   |
|                                    |       | State 74                           | 0.079  | State 74                           | 0.08   |                                    |       |                                    |        | State 74                           | 0.087   |
|                                    |       | State 75                           | 0.062  | State 75                           | 0.061  |                                    |       |                                    |        | State 75                           | 0.065   |
|                                    |       | State 76                           | 0.043  | State 76                           | 0.041  |                                    |       |                                    |        | State 76                           | 0.043   |
|                                    |       | State 77                           | 0.025  | State 77                           | 0.022  |                                    |       |                                    |        | State 77                           | 0.023   |
|                                    |       | State 78                           | 0.288  | State 78                           | 0.272  |                                    |       |                                    |        | State 78                           | 0.351   |
|                                    |       | State 79                           | 0.289  | State 79                           | 0.281  |                                    |       |                                    |        | State 79                           | 0.347   |
|                                    |       | State 80                           | 0.282  | State 80                           | 0.273  |                                    |       |                                    |        | State 80                           | 0.333   |
|                                    |       | State 81                           | 0.275  | State 81                           | 0.267  |                                    |       |                                    |        | State 81                           | 0.319   |
|                                    |       | State 82                           | 0.264  | State 82                           | 0.254  |                                    |       |                                    |        | State 82                           | 0.3     |
|                                    |       | State 83                           | 0.269  | State 83                           | 0.266  |                                    |       |                                    |        | State 83                           | 0.31    |
|                                    |       | State 84                           | 0.237  | State 84                           | 0.232  |                                    |       |                                    |        | State 84                           | 0.293   |
|                                    |       | State 85                           | 0.216  | State 85                           | 0.214  |                                    |       |                                    |        | State 85                           | 0.233   |
|                                    |       | State 86                           | 0.184  | State 86                           | 0.181  |                                    |       |                                    |        | State 86                           | 0.189   |
|                                    |       | State 87                           | 0.142  | State 87                           | 0.141  |                                    |       |                                    |        | State 87                           | 0.14    |
|                                    |       | State 88                           | 0.114  | State 88                           | 0.112  |                                    |       |                                    |        | State 88                           | 0.109   |
|                                    |       | State 89                           | 0.082  | State 89                           | 0.081  |                                    |       |                                    |        | State 89                           | 0.076   |
|                                    |       | State 90                           | 0.05   | State 90                           | 0.048  |                                    |       |                                    |        | State 90                           | 0.044   |
|                                    |       | State 91                           | 0.268  | State 91                           | 0.268  |                                    |       |                                    |        | State 91                           | 0.34    |
|                                    |       | State 92                           | 0.256  | State 92                           | 0.26   |                                    |       |                                    |        | State 92                           | 0.319   |
|                                    |       | State 93                           | 0.248  | State 93                           | 0.25   |                                    |       |                                    |        | State 93                           | 0.305   |
|                                    |       | State 94                           | 0.241  | State 94                           | 0.241  |                                    |       |                                    |        | State 94                           | 0.292   |
|                                    |       | State 95                           | 0.228  | State 95                           | 0.228  |                                    |       |                                    |        | State 95                           | 0.229   |
|                                    |       | State 96                           | 0.23   | State 96                           | 0.237  |                                    |       |                                    |        | State 96                           | 0.278   |
|                                    |       | State 97                           | 0.198  | State 97                           | 0.199  |                                    |       |                                    |        | State 97                           | 0.136   |
|                                    |       | State 98                           | 0.178  | State 98                           | 0.179  |                                    |       |                                    |        | State 98                           | 0.225   |
|                                    |       | State 99                           | 0.149  | State 99                           | 0.148  |                                    |       |                                    |        | State 99                           | 0.159   |
|                                    |       | State 100                          | 0.114  | State 100                          | 0.11   |                                    |       |                                    |        | State 100                          | 0.159   |
|                                    |       | State 101                          | 0.091  | State 101                          | 0.086  |                                    |       |                                    |        | State 101                          | 0.115   |
|                                    |       | State 102                          | 0.065  | State 102                          | 0.061  |                                    |       |                                    |        | State 102                          | 0.08    |
|                                    |       | State 103                          | 0.041  | State 103                          | 0.036  |                                    |       |                                    |        | State 103                          | 0.035   |
|                                    |       | State 104                          | 1.234  | State 104                          | 1.608  |                                    |       |                                    |        | State 104                          | 1.879   |
|                                    |       | State 105                          | 1.102  | State 105                          | 1.647  |                                    |       |                                    |        | State 105                          | 1.917   |
|                                    |       | State 106                          | 0.258  | State 106                          | 0.261  |                                    |       |                                    |        | State 106                          | 0.312   |
|                                    |       | State 107                          | 0.284  | State 107                          | 0.288  |                                    |       |                                    |        | State 107                          | 0.346   |
|                                    |       | State 108                          | 1.234  | State 108                          | 1.599  |                                    |       |                                    |        | State 108                          | 1.864   |
|                                    |       | State 109                          | 1.1    | State 109                          | 1.64   |                                    |       |                                    |        | State 109                          | 1.913   |
|                                    |       | State 110                          | 0.258  | State 110                          | 0.264  |                                    |       |                                    |        | State 110                          | 0.324   |
|                                    |       | State 111                          | 0.285  | State 111                          | 0.27   |                                    |       |                                    |        | State 111                          | 0.345   |
|                                    |       | State 112                          | 1.201  | State 112                          | 1.405  |                                    |       |                                    |        | State 112                          | 1.642   |
|                                    |       | State 113                          | 1.179  | State 113                          | 1.545  |                                    |       |                                    |        | State 113                          | 1.803   |
|                                    |       | State 114                          | 0.233  | State 114                          | 0.253  |                                    |       |                                    |        | State 114                          | 0.315   |
|                                    |       | State 115                          | 0.265  | State 115                          | 0.267  |                                    |       |                                    |        | State 115                          | 0.333   |
|                                    |       | State 116                          | 1.201  | State 116                          | 1.405  |                                    |       |                                    |        | State 116                          | 1.645   |
|                                    |       | State 117                          | 1.179  | State 117                          | 1.555  |                                    |       |                                    |        | State 117                          | 1.855   |
|                                    |       | State 118                          | 0.233  | State 118                          | 0.256  |                                    |       |                                    |        | State 118                          | 0.316   |
|                                    |       | State 119                          | 0.265  | State 119                          | 0.269  |                                    |       |                                    |        | State 119                          | 0.337   |

|                                                 |                                                                                                                                                                                                        |                                                 |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| FCC ID: A3LSMN986U                              |  <b>SAR EVALUATION REPORT</b>  | <b>Approved by:</b><br><br>Quality Manager      |
| <b>Document S/N:</b><br><br>1M2004170065-01.A3L | <b>Test Dates:</b><br><br>04/22/20 - 06/07/20                                                                                                                                                          | <b>DUT Type:</b><br><br>Portable Handset        |
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**Table 14-5**  
**LTE Supplemental Body SAR Data**

| Supplemental Body SAR Data               |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|------------------------------------------|--------|------------------------------------------|-------|-------------------------------------------|-------|------------------------------------------|-------|-------------------------------------------|----------|--------------------------------------------|--------|-------------------------------------------|--------|--------------------------------------------|--------|
| LTE B71                                  |        | LTE B12                                  |       | LTE B13                                   |       | LTE B14                                  |       | LTE B5                                    |          | LTE B28                                    |        | LTE B66/4                                 |        | LTE B25/2                                  |        |
| QPSK, 20MHz Bandwidth, 1 RB, 0 RB Offset |        | QPSK, 10MHz Bandwidth, 1 RB, 0 RB Offset |       | QPSK, 10MHz Bandwidth, 1 RB, 25 RB Offset |       | QPSK, 10MHz Bandwidth, 1 RB, 0 RB Offset |       | QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset |          | QPSK, 15 MHz Bandwidth, 1 RB, 36 RB Offset |        | QPSK, 20 MHz Bandwidth, 1 RB, 0 RB Offset |        | QPSK, 20 MHz Bandwidth, 50 RB 25 RB Offset |        |
| Test Position                            | Back   | Test Position                            | Back  | Test Position                             | Back  | Test Position                            | Back  | Test Position                             | Back     | Test Position                              | Back   | Test Position                             | Bottom | Test Position                              | Bottom |
| Spacing                                  | 10 mm  | Spacing                                  | 10 mm | Spacing                                   | 10 mm | Spacing                                  | 10 mm | Spacing                                   | 10 mm    | Spacing                                    | 10 mm  | Spacing                                   | 10 mm  | Spacing                                    | 10 mm  |
| Frequency (MHz)                          | 680.5  | Frequency (MHz)                          | 707.5 | Frequency (MHz)                           | 782.0 | Frequency (MHz)                          | 793.0 | Frequency (MHz)                           | 835.5    | Frequency (MHz)                            | 831.5  | Frequency (MHz)                           | 1770.0 | Frequency (MHz)                            | 1905.0 |
| Channel                                  | 133297 | Channel                                  | 23095 | Channel                                   | 23230 | Channel                                  | 23330 | Channel                                   | 20525    | Channel                                    | 26865  | Channel                                   | 132572 | Channel                                    | 26590  |
| Measured 1g SAR (W/kg)                   | 0.333  | Measured 1g SAR (W/kg)                   | 0.368 | Measured 1g SAR (W/kg)                    | 0.648 | Measured 1g SAR (W/kg)                   | 0.574 | Measured 1g SAR (W/kg)                    | 0.559    | Measured 1g SAR (W/kg)                     | 0.611  | Measured 1g SAR (W/kg)                    | 0.963  | Measured 1g SAR (W/kg)                     | 1.090  |
| Average Value of Time Sweep (W/kg)       | 0.548  | Average Value of Time Sweep (W/kg)       | 0.625 | Average Value of Time Sweep (W/kg)        | 1.043 | Average Value of Time Sweep (W/kg)       | 0.919 | Average Value of Time Sweep (W/kg)        | 0.892    | Average Value of Time Sweep (W/kg)         | 0.941  | Average Value of Time Sweep (W/kg)        | 1.535  | Average Value of Time Sweep (W/kg)         | 1.806  |
| Auto-tune (State 3)                      | 0.498  | Auto-tune (State 1)                      | 0.601 | Auto-tune (State 1)                       | 1.043 | Auto-tune (State 1)                      | 0.919 | Auto-tune (State 52)                      | 0.737    | Auto-tune (State 65)                       | 0.614  | Auto-tune (State 66)                      | 0.587  | Auto-tune (State 108)                      | 1.828  |
| Default (State 0)                        | 0.498  | Default (State 0)                        | 0.601 | Default (State 0)                         | 0.906 | Default (State 0)                        | 0.737 | Default (State 0)                         | 0.614    | Default (State 0)                          | 0.587  | Default (State 0)                         | 1.547  | Default (State 0)                          | 1.828  |
| State 1                                  | 0.550  | State 1                                  | 0.624 | State 1                                   | 1.045 | State 52                                 | 0.921 | State 10                                  | 0.258    | State 22                                   | 0.314  | State 0                                   | 1.547  | State 0                                    | 1.828  |
| State 3                                  | 0.561  | State 2                                  | 0.631 | State 32                                  | 0.733 | State 74                                 | 0.324 | State 16                                  | 0.799    | State 28                                   | 0.568  | State 1                                   | 1.542  | State 1                                    | 1.792  |
| State 4                                  | 0.569  | State 4                                  | 0.641 | State 41                                  | 1.001 | State 83                                 | 0.767 | State 20                                  | 0.666    | State 34                                   | 0.583  | State 2                                   | 1.541  | State 2                                    | 1.778  |
| State 48                                 | 0.266  | State 7                                  | 0.577 | State 49                                  | 0.128 | State 69                                 | 0.149 | State 25                                  | 0.096    | State 38                                   | 0.096  | State 3                                   | 1.543  | State 3                                    | 1.771  |
| State 63                                 | 0.092  | State 12                                 | 0.177 | State 56                                  | 0.839 | State 97                                 | 0.692 | State 27                                  | 0.575    | State 42                                   | 0.6124 | State 4                                   | 1.543  | State 4                                    | 1.747  |
| State 74                                 | 0.153  | State 17                                 | 0.633 | State 61                                  | 0.268 | State 102                                | 0.158 | State 35                                  | 0.347772 | State 47                                   | 0.5843 | State 5                                   | 1.541  | State 5                                    | 1.749  |
| State 82                                 | 0.251  | State 108                                | 0.602 | State 67                                  | 0.869 | State 112                                | 0.792 | State 65                                  | 0.906121 | State 66                                   | 0.9111 | State 6                                   | 1.545  | State 6                                    | 1.871  |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
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|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |
|                                          |        |                                          |       |                                           |       |                                          |       |                                           |          |                                            |        |                                           |        |                                            |        |

**Table 14-6**  
**NR Supplemental Body SAR Data**

| NR Band n71                                           |        | NR Band n12                                          |        | NR Band n16                                           |        | NR Band n66                                         |        | NR Band n251/2                                       |        |
|-------------------------------------------------------|--------|------------------------------------------------------|--------|-------------------------------------------------------|--------|-----------------------------------------------------|--------|------------------------------------------------------|--------|
| DFT-s-OFDM QPSK, 20MHz Bandwidth, 50 RB, 28 RB Offset |        | DFT-s-OFDM QPSK, 15MHz Bandwidth, 1 RB, 77 RB Offset |        | DFT-s-OFDM QPSK, 20MHz Bandwidth, 50 RB, 28 RB Offset |        | DFT-s-OFDM QPSK, 20MHz Bandwidth, 1 RB, 1 RB Offset |        | DFT-s-OFDM QPSK, 20MHz Bandwidth, 1 RB, 53 RB Offset |        |
| Test Position                                         | Back   | Test Position                                        | Back   | Test Position                                         | Back   | Test Position                                       | Bottom | Test Position                                        | Bottom |
| Spacing                                               | 10 mm  | Spacing                                              | 10 mm  | Spacing                                               | 10 mm  | Spacing                                             | 10 mm  | Spacing                                              | 10 mm  |
| Frequency (MHz)                                       | 680.5  | Frequency (MHz)                                      | 707.5  | Frequency (MHz)                                       | 836.5  | Frequency (MHz)                                     | 1770.0 | Frequency (MHz)                                      | 1905.0 |
| Channel                                               | 136100 | Channel                                              | 141500 | Channel                                               | 167300 | Channel                                             | 354000 | Channel                                              | 381000 |
| Measured 1g SAR (W/kg)                                | 0.302  | Measured 1g SAR (W/kg)                               | 0.340  | Measured 1g SAR (W/kg)                                | 0.568  | Measured 1g SAR (W/kg)                              | 1.080  | Measured 1g SAR (W/kg)                               | 1.150  |
| Average Value of Time Sweep (W/kg)                    |        | Average Value of Time Sweep (W/kg)                   |        | Average Value of Time Sweep (W/kg)                    |        | Average Value of Time Sweep (W/kg)                  |        | Average Value of Time Sweep (W/kg)                   |        |
| Auto-tune (State 3)                                   | 0.506  | Auto-tune (State 1)                                  | 0.564  | Auto-tune (State 65)                                  | 0.852  | Auto-tune (State 6)                                 | 1.751  | Auto-tune (State 106)                                | 1.928  |
| Default (State 0)                                     | 0.443  | Default (State 0)                                    | 0.531  | Default (State 0)                                     | 0.821  | Default (State 0)                                   | 1.763  | Default (State 0)                                    | 1.881  |
| State 3                                               | 0.506  | State 1                                              | 0.564  | State 65                                              | 0.852  | State 0                                             | 1.763  | State 0                                              | 1.881  |
| State 4                                               | 0.515  | State 4                                              | 0.574  | State 66                                              | 0.738  | State 1                                             | 1.761  | State 1                                              | 1.835  |
| State 99                                              | 0.112  | State 92                                             | 0.352  | State 72                                              | 0.422  | State 2                                             | 1.760  | State 2                                              | 1.827  |
| State 106                                             | 0.469  | State 100                                            | 0.083  | State 76                                              | 0.128  | State 3                                             | 1.756  | State 3                                              | 1.818  |
| State 110                                             | 0.468  | State 108                                            | 0.538  | State 84                                              | 0.515  | State 4                                             | 1.775  | State 4                                              | 1.789  |
| State 115                                             | 0.355  | State 112                                            | 0.544  | State 94                                              | 0.819  | State 5                                             | 1.771  | State 5                                              | 1.791  |
|                                                       |        |                                                      |        |                                                       |        | State 6                                             | 1.751  | State 6                                              | 1.842  |
|                                                       |        |                                                      |        |                                                       |        | State 7                                             | 1.74   | State 7                                              | 1.654  |
|                                                       |        |                                                      |        |                                                       |        | State 8                                             | 1.712  | State 8                                              | 1.559  |
|                                                       |        |                                                      |        |                                                       |        | State 9                                             | 1.642  | State 9                                              | 1.371  |
|                                                       |        |                                                      |        |                                                       |        | State 10                                            | 1.57   | State 10                                             | 1.242  |
|                                                       |        |                                                      |        |                                                       |        | State 11                                            | 1.444  | State 11                                             | 1.084  |
|                                                       |        |                                                      |        |                                                       |        | State 12                                            | 1.234  | State 12                                             | 0.81   |
|                                                       |        |                                                      |        |                                                       |        | State 13                                            | 1.591  | State 13                                             | 1.686  |
|                                                       |        |                                                      |        |                                                       |        | State 14                                            | 1.591  | State 14                                             | 1.659  |
|                                                       |        |                                                      |        |                                                       |        | State 15                                            | 1.588  | State 15                                             | 1.639  |
|                                                       |        |                                                      |        |                                                       |        | State 16                                            | 1.587  | State 16                                             | 1.599  |
|                                                       |        |                                                      |        |                                                       |        | State 17                                            | 1.585  | State 17                                             | 1.559  |
|                                                       |        |                                                      |        |                                                       |        | State 18                                            | 1.589  | State 18                                             | 1.552  |
|                                                       |        |                                                      |        |                                                       |        | State 19                                            | 1.552  | State 19                                             | 1.47   |
|                                                       |        |                                                      |        |                                                       |        | State 20                                            | 1.506  | State 20                                             | 1.408  |
|                                                       |        |                                                      |        |                                                       |        | State 21                                            | 1.474  | State 21                                             | 1.314  |
|                                                       |        |                                                      |        |                                                       |        | State 22                                            | 1.384  | State 22                                             | 1.144  |
|                                                       |        |                                                      |        |                                                       |        | State 23                                            | 1.306  | State 23                                             | 1.01   |
|                                                       |        |                                                      |        |                                                       |        | State 24                                            | 1.169  | State 24                                             | 0.853  |
|                                                       |        |                                                      |        |                                                       |        | State 25                                            | 0.952  | State 25                                             | 0.629  |
|                                                       |        |                                                      |        |                                                       |        | State 26                                            | 1.655  | State 26                                             | 1.94   |
|                                                       |        |                                                      |        |                                                       |        | State 27                                            | 1.663  | State 27                                             | 1.89   |
|                                                       |        |                                                      |        |                                                       |        | State 28                                            | 1.678  | State 28                                             | 1.885  |
|                                                       |        |                                                      |        |                                                       |        | State 29                                            | 1.69   | State 29                                             | 1.893  |
|                                                       |        |                                                      |        |                                                       |        | State 30                                            | 1.698  | State 30                                             | 1.881  |
|                                                       |        |                                                      |        |                                                       |        | State 31                                            | 1.694  | State 31                                             | 1.883  |
|                                                       |        |                                                      |        |                                                       |        | State 32                                            | 1.69   | State 32                                             | 1.796  |
|                                                       |        |                                                      |        |                                                       |        | State 33                                            | 1.696  | State 33                                             | 1.754  |
|                                                       |        |                                                      |        |                                                       |        | State 34                                            | 1.701  | State 34                                             | 1.675  |
|                                                       |        |                                                      |        |                                                       |        | State 35                                            | 1.673  | State 35                                             | 1.561  |
|                                                       |        |                                                      |        |                                                       |        | State 36                                            | 1.637  | State 36                                             | 1.423  |
|                                                       |        |                                                      |        |                                                       |        | State 37                                            | 1.568  | State 37                                             | 1.211  |
|                                                       |        |                                                      |        |                                                       |        | State 38                                            | 1.374  | State 38                                             | 0.938  |
|                                                       |        |                                                      |        |                                                       |        | State 39                                            | 1.685  | State 39                                             | 1.837  |
|                                                       |        |                                                      |        |                                                       |        | State 40                                            | 1.705  | State 40                                             | 1.832  |
|                                                       |        |                                                      |        |                                                       |        | State 41                                            | 1.713  | State 41                                             | 1.816  |
|                                                       |        |                                                      |        |                                                       |        | State 42                                            | 1.711  | State 42                                             | 1.781  |
|                                                       |        |                                                      |        |                                                       |        | State 43                                            | 1.703  | State 43                                             | 1.725  |
|                                                       |        |                                                      |        |                                                       |        | State 44                                            | 1.7    | State 44                                             | 1.732  |
|                                                       |        |                                                      |        |                                                       |        | State 45                                            | 1.701  | State 45                                             | 1.673  |
|                                                       |        |                                                      |        |                                                       |        | State 46                                            | 1.668  | State 46                                             | 1.609  |
|                                                       |        |                                                      |        |                                                       |        | State 47                                            | 1.656  | State 47                                             | 1.603  |
|                                                       |        |                                                      |        |                                                       |        | State 48                                            | 1.588  | State 48                                             | 1.343  |
|                                                       |        |                                                      |        |                                                       |        | State 49                                            | 1.525  | State 49                                             | 1.212  |
|                                                       |        |                                                      |        |                                                       |        | State 50                                            | 1.433  | State 50                                             | 1.025  |
|                                                       |        |                                                      |        |                                                       |        | State 51                                            | 1.217  | State 51                                             | 0.775  |
|                                                       |        |                                                      |        |                                                       |        | State 52                                            | 0.275  | State 52                                             | 0.312  |
|                                                       |        |                                                      |        |                                                       |        | State 53                                            | 0.275  | State 53                                             | 0.31   |
|                                                       |        |                                                      |        |                                                       |        | State 54                                            | 0.265  | State 54                                             | 0.301  |
|                                                       |        |                                                      |        |                                                       |        | State 55                                            | 0.262  | State 55                                             | 0.289  |
|                                                       |        |                                                      |        |                                                       |        | State 56                                            | 0.249  | State 56                                             | 0.271  |
|                                                       |        |                                                      |        |                                                       |        | State 57                                            | 0.256  | State 57                                             | 0.282  |
|                                                       |        |                                                      |        |                                                       |        | State 58                                            | 0.227  | State 58                                             | 0.24   |
|                                                       |        |                                                      |        |                                                       |        | State 59                                            | 0.209  | State 59                                             | 0.218  |
|                                                       |        |                                                      |        |                                                       |        | State 60                                            | 0.181  | State 60                                             | 0.18   |
|                                                       |        |                                                      |        |                                                       |        | State 61                                            | 0.144  | State 61                                             | 0.133  |
|                                                       |        |                                                      |        |                                                       |        | State 62                                            | 0.118  | State 62                                             | 0.104  |
|                                                       |        |                                                      |        |                                                       |        | State 63                                            | 0.087  | State 63                                             | 0.072  |
|                                                       |        |                                                      |        |                                                       |        | State 64                                            | 0.054  | State 64                                             | 0.041  |
|                                                       |        |                                                      |        |                                                       |        | State 65                                            | 0.254  | State 65                                             | 0.299  |
|                                                       |        |                                                      |        |                                                       |        | State 66                                            | 0.237  | State 66                                             | 0.28   |
|                                                       |        |                                                      |        |                                                       |        | State 67                                            | 0.227  | State 67                                             | 0.268  |
|                                                       |        |                                                      |        |                                                       |        | State 68                                            | 0.217  | State 68                                             | 0.256  |
|                                                       |        |                                                      |        |                                                       |        | State 69                                            | 0.205  | State 69                                             | 0.249  |
|                                                       |        |                                                      |        |                                                       |        | State 70                                            | 0.206  | State 70                                             | 0.256  |
|                                                       |        |                                                      |        |                                                       |        | State 71                                            | 0.175  | State 71                                             | 0.207  |
|                                                       |        |                                                      |        |                                                       |        | State 72                                            | 0.156  | State 72                                             | 0.177  |
|                                                       |        |                                                      |        |                                                       |        | State 73                                            | 0.131  | State 73                                             | 0.14   |
|                                                       |        |                                                      |        |                                                       |        | State 74                                            | 0.099  | State 74                                             | 0.097  |
|                                                       |        |                                                      |        |                                                       |        | State 75                                            | 0.078  | State 75                                             | 0.074  |
|                                                       |        |                                                      |        |                                                       |        | State 76                                            | 0.056  | State 76                                             | 0.049  |
|                                                       |        |                                                      |        |                                                       |        | State 77                                            | 0.034  | State 77                                             | 0.027  |
|                                                       |        |                                                      |        |                                                       |        | State 78                                            | 0.302  | State 78                                             | 0.318  |
|                                                       |        |                                                      |        |                                                       |        | State 79                                            | 0.323  | State 79                                             | 0.333  |
|                                                       |        |                                                      |        |                                                       |        | State 80                                            | 0.315  | State 80                                             | 0.324  |
|                                                       |        |                                                      |        |                                                       |        | State 81                                            | 0.313  | State 81                                             | 0.315  |
|                                                       |        |                                                      |        |                                                       |        | State 82                                            | 0.307  | State 82                                             | 0.302  |
|                                                       |        |                                                      |        |                                                       |        | State 83                                            | 0.315  | State 83                                             | 0.315  |
|                                                       |        |                                                      |        |                                                       |        | State 84                                            | 0.291  | State 84                                             | 0.28   |
|                                                       |        |                                                      |        |                                                       |        | State 85                                            | 0.28   | State 85                                             | 0.255  |
|                                                       |        |                                                      |        |                                                       |        | State 86                                            | 0.247  | State 86                                             | 0.218  |
|                                                       |        |                                                      |        |                                                       |        | State 87                                            | 0.204  | State 87                                             | 0.164  |
|                                                       |        |                                                      |        |                                                       |        | State 88                                            | 0.167  | State 88                                             | 0.129  |
|                                                       |        |                                                      |        |                                                       |        | State 89                                            | 0.125  | State 89                                             | 0.091  |
|                                                       |        |                                                      |        |                                                       |        | State 90                                            | 0.077  | State 90                                             | 0.053  |
|                                                       |        |                                                      |        |                                                       |        | State 91                                            | 0.285  | State 91                                             | 0.313  |
|                                                       |        |                                                      |        |                                                       |        | State 92                                            | 0.285  | State 92                                             | 0.311  |
|                                                       |        |                                                      |        |                                                       |        | State 93                                            | 0.275  | State 93                                             | 0.301  |
|                                                       |        |                                                      |        |                                                       |        | State 94                                            | 0.272  | State 94                                             | 0.291  |
|                                                       |        |                                                      |        |                                                       |        | State 95                                            | 0.262  | State 95                                             | 0.274  |
|                                                       |        |                                                      |        |                                                       |        | State 96                                            | 0.267  | State 96                                             | 0.282  |
|                                                       |        |                                                      |        |                                                       |        | State 97                                            | 0.238  | State 97                                             | 0.24   |
|                                                       |        |                                                      |        |                                                       |        | State 98                                            | 0.218  | State 98                                             | 0.214  |
|                                                       |        |                                                      |        |                                                       |        | State 99                                            | 0.191  | State 99                                             | 0.177  |
|                                                       |        |                                                      |        |                                                       |        | State 100                                           | 0.153  | State 100                                            | 0.13   |
|                                                       |        |                                                      |        |                                                       |        | State 101                                           | 0.125  | State 101                                            | 0.102  |
|                                                       |        |                                                      |        |                                                       |        | State 102                                           | 0.092  | State 102                                            | 0.071  |
|                                                       |        |                                                      |        |                                                       |        | State 103                                           | 0.059  | State 103                                            | 0.042  |
|                                                       |        |                                                      |        |                                                       |        | State 104                                           | 1.751  | State 104                                            | 1.821  |
|                                                       |        |                                                      |        |                                                       |        | State 105                                           | 1.65   | State 105                                            | 1.85   |
|                                                       |        |                                                      |        |                                                       |        | State 106                                           | 0.273  | State 106                                            | 0.304  |
|                                                       |        |                                                      |        |                                                       |        | State 107                                           | 0.298  | State 107                                            | 0.314  |
|                                                       |        |                                                      |        |                                                       |        | State 108                                           | 1.759  | State 108                                            | 1.828  |
|                                                       |        |                                                      |        |                                                       |        | State 109                                           | 1.654  | State 109                                            | 1.817  |
|                                                       |        |                                                      |        |                                                       |        | State 110                                           | 0.273  | State 110                                            | 0.305  |
|                                                       |        |                                                      |        |                                                       |        | State 111                                           | 0.299  | State 111                                            | 0.315  |
|                                                       |        |                                                      |        |                                                       |        | State 112                                           | 1.586  | State 112                                            | 1.643  |
|                                                       |        |                                                      |        |                                                       |        | State 113                                           | 1.684  | State 113                                            | 1.77   |
|                                                       |        |                                                      |        |                                                       |        | State 114                                           | 0.249  | State 114                                            | 0.293  |
|                                                       |        |                                                      |        |                                                       |        | State 115                                           | 0.281  | State 115                                            | 0.308  |
|                                                       |        |                                                      |        |                                                       |        | State 116                                           | 1.580  | State 116                                            | 1.651  |
|                                                       |        |                                                      |        |                                                       |        | State 117                                           | 1.682  | State 117                                            | 1.765  |
|                                                       |        |                                                      |        |                                                       |        | State 118                                           | 0.25   | State 118                                            | 0.293  |
|                                                       |        |                                                      |        |                                                       |        | State 119                                           | 0.281  | State 119                                            | 0.31   |

|                                      |                                                                                                                                                                                                                                                                                                                                                    |                               |                                 |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   | <div><div>Proud to be part of </div></div> <div>SAR EVALUATION REPORT</div> <div></div> |                               | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                                                                                                                                                                                                                 | DUT Type:<br>Portable Handset | Page 292 of 305                 |

## 14.2 LTE Band 41 Power Class 2 and Power Class 3 Linearity

This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the highest power and available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR for each exposure condition. The linearity between the Power Class 2 and Power Class 3 SAR results and the respective frame averaged powers was calculated to determine that the results were linear. When ULCA is active, the linearity between the Power Class 2 with ULCA active and Power Class 3 with ULCA active SAR results and the respective frame averaged powers was calculated to determine that the results were linear. Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes was < 10% and all reported SAR values were < 1.4 W/kg for 1g and < 3.5 W/kg for 10g.

**Table 14-7**  
**LTE Band 41 Head Linearity Data**

|                                     | LTE Band 41 PC3 | LTE Band 41 PC2 |
|-------------------------------------|-----------------|-----------------|
| Maximum Allowed Output Power (dBm)  | 25              | 27.5            |
| Measured Output Power (dBm)         | 24.11           | 26.72           |
| Measured SAR (W/kg)                 | 0.055           | 0.073           |
| Measured Power (mW)                 | 257.63          | 469.89          |
| Duty Cycle                          | 63.3%           | 43.3%           |
| Frame Averaged Output Power (mW)    | 163.08          | 203.46          |
| % deviation from expected linearity |                 | 6.19%           |

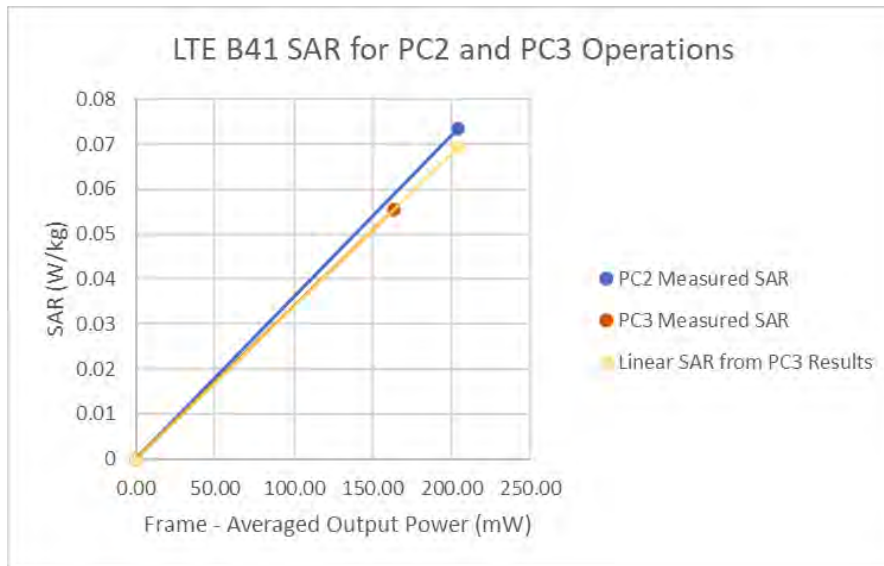


**Figure 14-1**  
**LTE Band 41 Head Linearity**

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 293 of 305                        |

**Table 14-8**  
**LTE Band 41 ULCA Head Linearity Data**

|                                     | LTE Band 41 PC3 | LTE Band 41 PC2 |
|-------------------------------------|-----------------|-----------------|
| Maximum Allowed Output Power (dBm)  | 25              | 27.5            |
| Measured Output Power (dBm)         | 24.41           | 27.15           |
| Measured SAR (W/kg)                 | 0.056           | 0.077           |
| Measured Power (mW)                 | 276.06          | 518.80          |
| Duty Cycle                          | 63.3%           | 43.3%           |
| Frame Averaged Output Power (mW)    | 174.74          | 224.64          |
| % deviation from expected linearity |                 | 7.90%           |

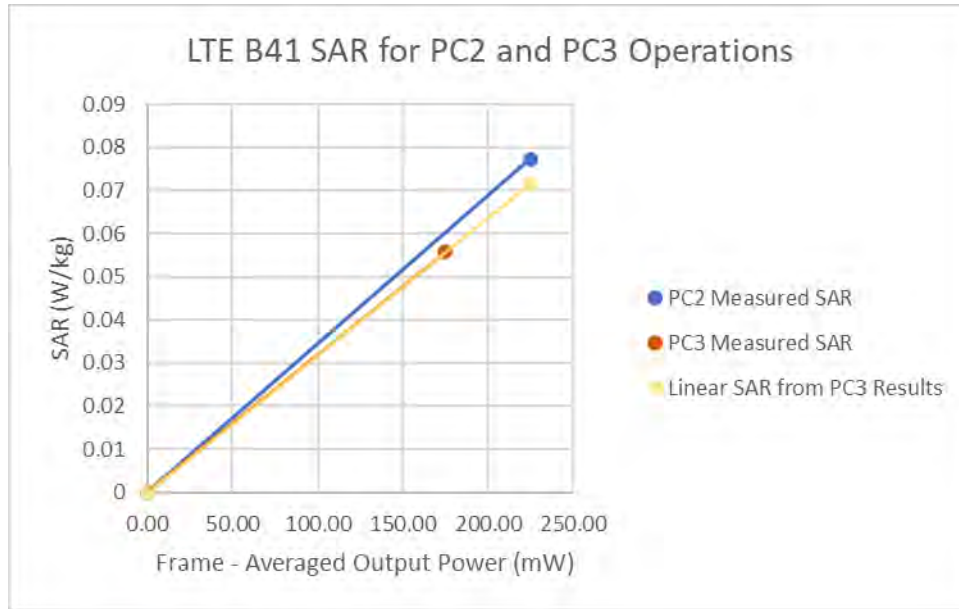


**Figure 14-2**  
**LTE Band 41 ULCA Head Linearity**

|                                             |                                                                                                                                            |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          | <br>PCTEST<br>Proud to be part of the Samsung ecosystem | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                  | <b>DUT Type:</b><br>Portable Handset | Page 294 of 305                                                                       |                                        |

**Table 14-9**  
**LTE Band 41 Body-Worn Linearity Data**

|                                     | LTE Band 41 PC3 | LTE Band 41 PC2 |
|-------------------------------------|-----------------|-----------------|
| Maximum Allowed Output Power (dBm)  | 25              | 27.5            |
| Measured Output Power (dBm)         | 24.11           | 26.72           |
| Measured SAR (W/kg)                 | 0.203           | 0.253           |
| Measured Power (mW)                 | 257.63          | 469.89          |
| Duty Cycle                          | 63.3%           | 43.3%           |
| Frame Averaged Output Power (mW)    | 163.08          | 203.46          |
| % deviation from expected linearity |                 | -0.11%          |

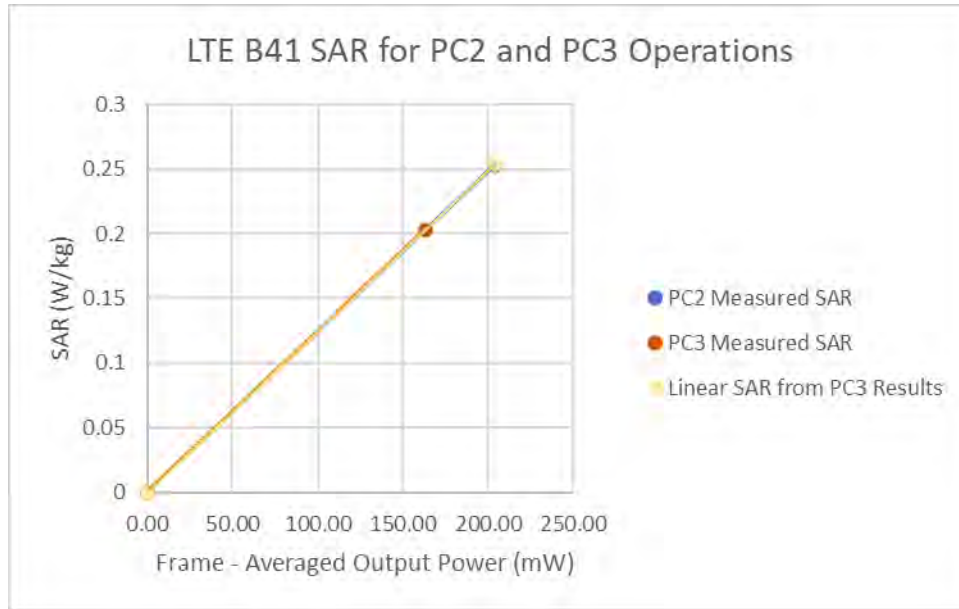


**Figure 14-3**  
**LTE Band 41 Body-Worn Linearity**

|                                             |                                                                                                                                                                                                                                 |                                      |                                                                                       |                                        |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the</small>  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                       | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 295 of 305                        |

**Table 14-10**  
**LTE Band 41 ULCA Body-Worn Linearity Data**

|                                     | LTE Band 41 PC3 | LTE Band 41 PC2 |
|-------------------------------------|-----------------|-----------------|
| Maximum Allowed Output Power (dBm)  | 25              | 27.5            |
| Measured Output Power (dBm)         | 24.41           | 27.15           |
| Measured SAR (W/kg)                 | 0.208           | 0.291           |
| Measured Power (mW)                 | 276.06          | 518.80          |
| Duty Cycle                          | 63.3%           | 43.3%           |
| Frame Averaged Output Power (mW)    | 174.74          | 224.64          |
| % deviation from expected linearity |                 | 8.83%           |

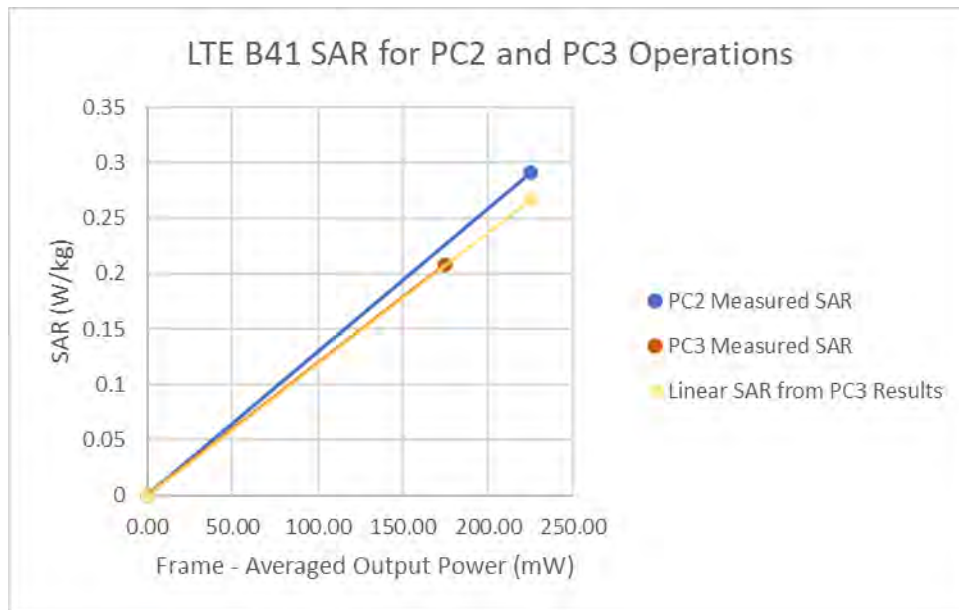


**Figure 14-4**  
**LTE Band 41 ULCA Body-Worn Linearity**

|                                             |                                                                                                                                                            |                                      |                                                                                       |                                        |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the Samsung family</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                  | <b>DUT Type:</b><br>Portable Handset | Page 296 of 305                                                                       |                                        |



**Table 14-11**  
**LTE Band 41 Hotspot Linearity Data**

|                                     | LTE Band 41 PC3 | LTE Band 41 PC2 |
|-------------------------------------|-----------------|-----------------|
| Maximum Allowed Output Power (dBm)  | 22              | 23.6            |
| Measured Output Power (dBm)         | 21.36           | 23              |
| Measured SAR (W/kg)                 | 0.389           | 0.373           |
| Measured Power (mW)                 | 136.77          | 199.53          |
| Duty Cycle                          | 63.3%           | 43.3%           |
| Frame Averaged Output Power (mW)    | 86.58           | 86.39           |
| % deviation from expected linearity |                 | -3.91%          |

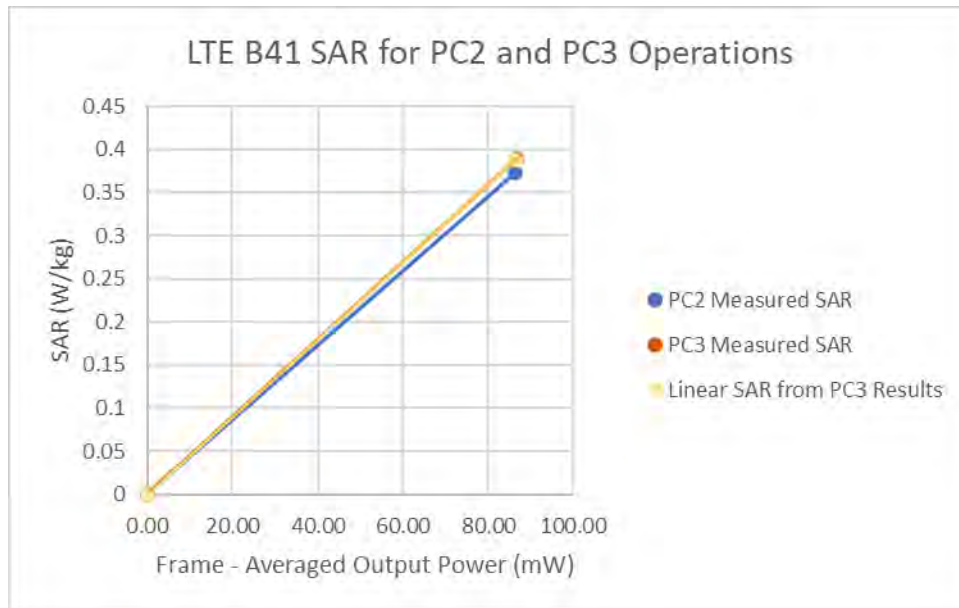


**Figure 14-5**  
**LTE Band 41 Hotspot Linearity**

|                                             |                                                                                                                                                                                                                                                |                                      |                                                                                       |                                        |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the</small>  <b>samsung</b> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                                                      | <b>DUT Type:</b><br>Portable Handset | Page 297 of 305                                                                       |                                        |

**Table 14-12**  
**LTE Band 41 ULCA Hotspot Linearity Data**

|                                     | LTE Band 41 PC3 | LTE Band 41 PC2 |
|-------------------------------------|-----------------|-----------------|
| Maximum Allowed Output Power (dBm)  | 22              | 23.6            |
| Measured Output Power (dBm)         | 21.25           | 23.06           |
| Measured SAR (W/kg)                 | 0.393           | 0.384           |
| Measured Power (mW)                 | 133.35          | 202.30          |
| Duty Cycle                          | 63.3%           | 43.3%           |
| Frame Averaged Output Power (mW)    | 84.41           | 87.60           |
| % deviation from expected linearity |                 | -5.84%          |

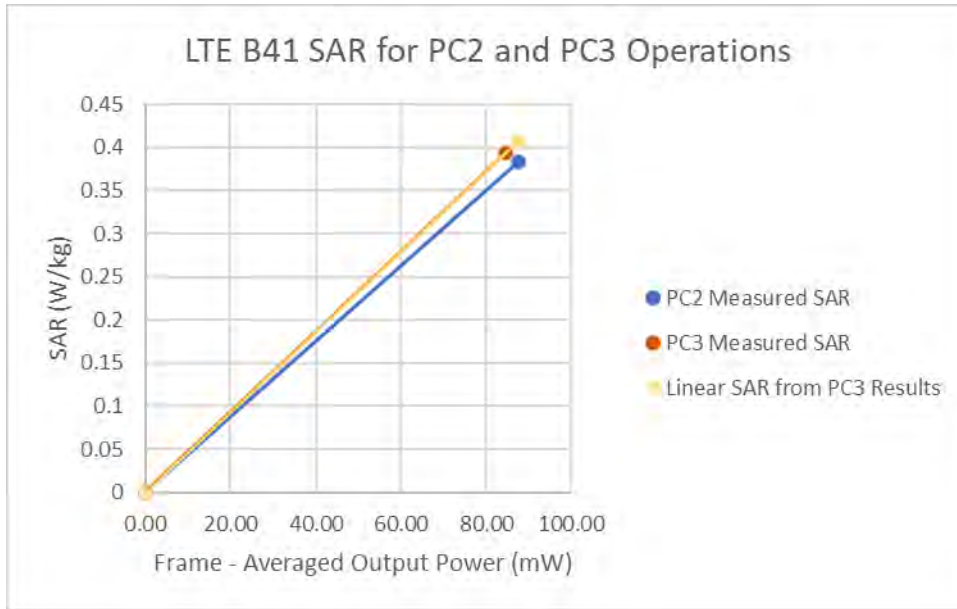


**Figure 14-6**  
**LTE Band 41 ULCA Hotspot Linearity**

|                                             |                                                                                                                                                               |                                      |                                                                                       |                                        |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the Samsung ecosystem</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                     | <b>DUT Type:</b><br>Portable Handset | Page 298 of 305                                                                       |                                        |

**Table 14-13**  
**LTE Band 41 Phablet Linearity Data**

|                                     | LTE Band 41 PC3 | LTE Band 41 PC2 |
|-------------------------------------|-----------------|-----------------|
| Maximum Allowed Output Power (dBm)  | 23              | 24.6            |
| Measured Output Power (dBm)         | 22.31           | 23.97           |
| Measured SAR (W/kg)                 | 2.18            | 2.15            |
| Measured Power (mW)                 | 170.22          | 249.46          |
| Duty Cycle                          | 63.3%           | 43.3%           |
| Frame Averaged Output Power (mW)    | 107.75          | 108.02          |
| % deviation from expected linearity |                 | -1.62%          |

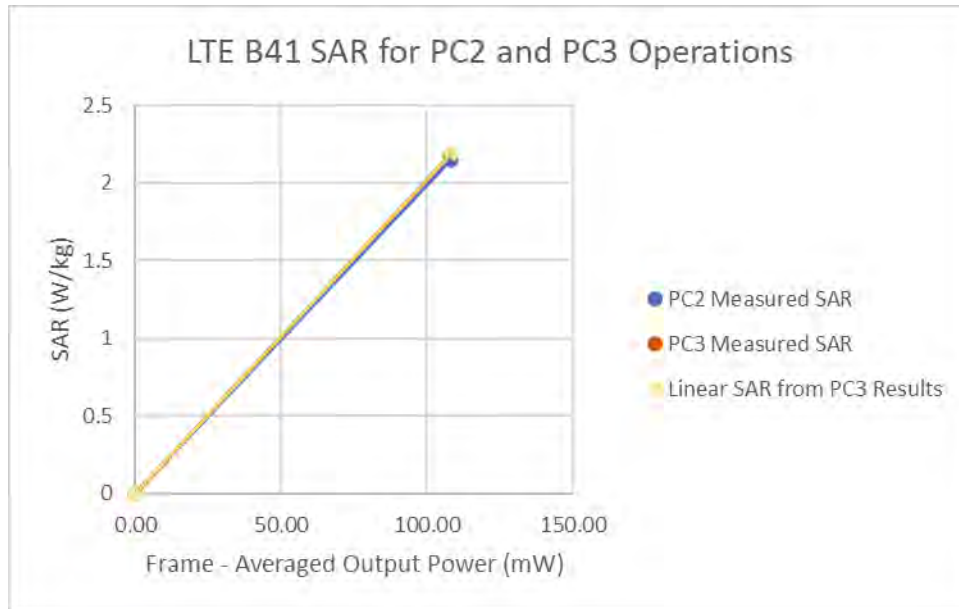


**Figure 14-7**  
**LTE Band 41 Phablet Linearity**

|                                             |                                                                                                                                                               |                                      |                                                                                       |                                        |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the Samsung ecosystem</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                     | <b>DUT Type:</b><br>Portable Handset | Page 299 of 305                                                                       |                                        |

**Table 14-14**  
**LTE Band 41 ULCA Phablet Linearity Data**

|                                     | LTE Band 41 PC3 | LTE Band 41 PC2 |
|-------------------------------------|-----------------|-----------------|
| Maximum Allowed Output Power (dBm)  | 23              | 24.6            |
| Measured Output Power (dBm)         | 22.58           | 24.47           |
| Measured SAR (W/kg)                 | 2.43            | 2.53            |
| Measured Power (mW)                 | 181.13          | 279.90          |
| Duty Cycle                          | 63.3%           | 43.3%           |
| Frame Averaged Output Power (mW)    | 114.66          | 121.20          |
| % deviation from expected linearity |                 | -1.50%          |

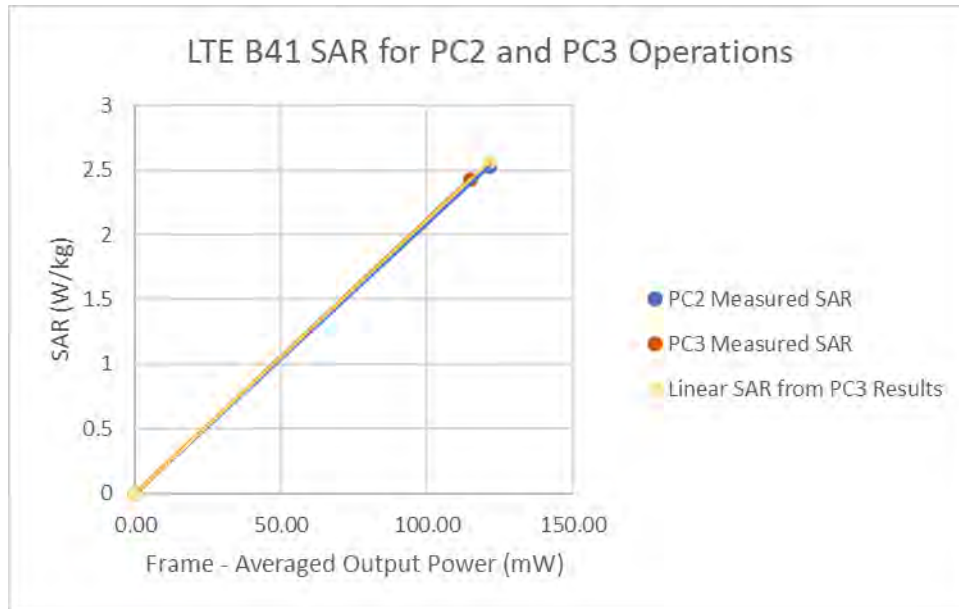


**Figure 14-8**  
**LTE Band 41 ULCA Phablet Linearity**

|                                             |                                                                                                                                                     |                                      |                                                                                       |                                        |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the element</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                           | <b>DUT Type:</b><br>Portable Handset | Page 300 of 305                                                                       |                                        |

# 15 EQUIPMENT LIST

| Manufacturer          | Model           | Description                                             | Cal Date   | Cal Interval | Cal Due    | Serial Number |
|-----------------------|-----------------|---------------------------------------------------------|------------|--------------|------------|---------------|
| Agilent               | E4408B          | Spectrum Analyzer (9KHz-6.7GHz)                         | 1/26/2020  | Triennial    | 1/26/2023  | U541441489    |
| Agilent               | 8733ES          | 5-Parameter Network Analyzer                            | 12/31/2019 | Annual       | 12/31/2020 | U359170122    |
| Agilent               | 8733ES          | 5-Parameter Network Analyzer                            | 8/26/2019  | Annual       | 8/26/2020  | MY40000670    |
| Agilent               | 8733ES          | 5-Parameter Vector Network Analyzer                     | 9/29/2019  | Annual       | 9/29/2020  | MY40003841    |
| Agilent               | E4432B          | ESG-D Series Signal Generator                           | 7/14/2019  | Annual       | 7/14/2020  | U54053386     |
| Agilent               | E4438C          | ESG Vector Signal Generator                             | 3/8/2019   | Biennial     | 3/8/2021   | MY42082385    |
| Agilent               | E4438C          | ESG Vector Signal Generator                             | 3/11/2019  | Biennial     | 3/11/2021  | MY45090700    |
| Agilent               | E4438C          | ESG Vector Signal Generator                             | 12/13/2019 | Annual       | 12/13/2020 | MY42082659    |
| Agilent               | E5515C          | 8960 Series 10 Wireless Communications Test Set         | 2/10/2020  | Annual       | 2/10/2021  | GB42130325    |
| Agilent               | E5515C          | Wireless Communications Test Set                        | 1/14/2020  | Triennial    | 1/14/2023  | GB41304447    |
| Agilent               | E5515C          | Wireless Communications Test Set                        | 6/26/2019  | Annual       | 6/26/2020  | MY50267125    |
| Agilent               | E5515C          | Wireless Communications Test Set                        | 2/26/2020  | Annual       | 2/26/2021  | GB44400860    |
| Agilent               | E5515C          | Wireless Communications Test Set                        | 9/25/2019  | Annual       | 9/25/2020  | GB43304278    |
| Agilent               | N3182A          | MMG Vector Signal Generator                             | 7/10/2019  | Annual       | 7/10/2020  | MY43420800    |
| Agilent               | N3182A          | MMG Vector Signal Generator                             | 2/29/2020  | Annual       | 2/29/2021  | MY43420951    |
| Agilent               | N9030A          | PXA Signal Analyzer (44GHz)                             | 6/12/2019  | Annual       | 6/12/2020  | MY52350166    |
| Amplifier Research    | 1551G6          | Amplifier                                               | CBT        | N/A          | CBT        | 433972        |
| Amplifier Research    | 1551G6          | Amplifier                                               | CBT        | N/A          | CBT        | 433974        |
| Amplifier Research    | 1551G6          | Amplifier                                               | CBT        | N/A          | CBT        | 433976        |
| Anritsu               | MA24106A        | USB Power Sensor                                        | 2/27/2020  | Annual       | 2/27/2021  | 1244524       |
| Anritsu               | MA24106A        | USB Power Sensor                                        | 10/10/2019 | Annual       | 10/10/2020 | 1344545       |
| Anritsu               | MA24106A        | USB Power Sensor                                        | 10/10/2019 | Annual       | 10/10/2020 | 1344559       |
| Anritsu               | MA2411B         | Pulse Power Sensor                                      | 6/11/2019  | Annual       | 6/11/2020  | 1207364       |
| Anritsu               | ML2495A         | Power Meter                                             | 12/14/2019 | Annual       | 12/14/2020 | 1126066       |
| Anritsu               | ML2495A         | Power Meter                                             | 12/17/2019 | Annual       | 12/17/2020 | 941001        |
| Anritsu               | ML2496A         | Power Meter                                             | 3/23/2020  | Annual       | 3/23/2021  | 1351001       |
| Anritsu               | MT8821C         | Radio Communication Analyzer                            | 3/10/2020  | Annual       | 3/10/2021  | 6200901190    |
| Anritsu               | MT8821C         | Radio Communication Analyzer                            | 10/7/2019  | Annual       | 10/7/2020  | 6201664796    |
| Anritsu               | MT8821C         | Radio Communication Analyzer                            | 2/22/2020  | Annual       | 2/22/2021  | 626395213     |
| Anritsu               | MT8821C         | Radio Communication Analyzer                            | 11/22/2019 | Annual       | 11/22/2020 | 6262044715    |
| Anritsu               | MT8862A         | Wireless Connectivity Test Set                          | 8/8/2020   | Annual       | 8/8/2020   | 6261782395    |
| COMTECH               | AR85729-S       | Solid State Amplifier                                   | CBT        | N/A          | CBT        | MY155400-009  |
| COMTECH               | AR85729-S/57598 | Solid State Amplifier                                   | CBT        | N/A          | CBT        | MY9400-3082   |
| Control Company       | 4040            | Therm./Clock/Humidity Monitor                           | 6/29/2019  | Biennial     | 6/29/2021  | 192291425     |
| Control Company       | 4040            | Therm./Clock/Humidity Monitor                           | 6/29/2019  | Biennial     | 6/29/2021  | 192291463     |
| Control Company       | 4352            | Long Stem Thermometer                                   | 1/24/2020  | Biennial     | 1/24/2022  | 200043588     |
| Control Company       | 4352            | Long Stem Thermometer                                   | 1/24/2020  | Biennial     | 1/24/2022  | 200043555     |
| Control Company       | 4352            | Long Stem Thermometer                                   | 1/24/2020  | Biennial     | 1/24/2022  | 200043647     |
| Control Company       | 4352            | Ultra Long Stem Thermometer                             | 11/29/2018 | Biennial     | 11/29/2020 | 181766817     |
| Control Company       | 4352            | Ultra Long Stem Thermometer                             | 11/29/2018 | Biennial     | 11/29/2020 | 181766817     |
| Keylight              | 7720            | Dual Directional Coupler                                | CBT        | N/A          | CBT        | MY52180215    |
| Keylight Technologies | 85031E          | Standard Mechanical Calibration Kit (DC to 3GHz, 3.5mm) | 7/2/2019   | Annual       | 7/2/2020   | MY52180118    |
| MCL                   | BW-N6W5+        | 6dB Attenuator                                          | CBT        | N/A          | CBT        | 1139          |
| MiniCircuits          | SLP-2400+       | Low Pass Filter                                         | CBT        | N/A          | CBT        | R8979500903   |
| MiniCircuits          | VLF-6000+       | Low Pass Filter                                         | CBT        | N/A          | CBT        | N/A           |
| MiniCircuits          | VLF-6000+       | Low Pass Filter                                         | CBT        | N/A          | CBT        | N/A           |
| MiniCircuits          | BW-420W5        | Power Attenuator                                        | CBT        | N/A          | CBT        | 1226          |
| MiniCircuits          | BW-420W5+       | DC to 38 GHz Precision Fixed 20 dB Attenuator           | CBT        | N/A          | CBT        | N/A           |
| MiniCircuits          | NLP-1200+       | Low Pass Filter DC to 1000 MHz                          | CBT        | N/A          | CBT        | N/A           |
| MiniCircuits          | NLP-2950+       | Low Pass Filter DC to 2700 MHz                          | CBT        | N/A          | CBT        | N/A           |
| Narda                 | BW-S3W2         | Attenuator (dB)                                         | CBT        | N/A          | CBT        | 120           |
| Pasternack            | PE2208-6        | Bi-directional Coupler                                  | CBT        | N/A          | CBT        | N/A           |
| Pasternack            | PE2209-10       | Bi-directional Coupler                                  | CBT        | N/A          | CBT        | N/A           |
| Seekonk               | NC-100          | Torque Wrench                                           | 7/18/2019  | Annual       | 7/18/2020  | N/A           |
| Rohde & Schwarz       | CMW500          | Radio Communication Tester                              | 3/27/2020  | Annual       | 3/27/2021  | 128633        |
| Rohde & Schwarz       | CMW500          | Radio Communication Tester                              | 8/14/2019  | Annual       | 8/14/2020  | 140144        |
| Rohde & Schwarz       | CMW500          | Radio Communication Tester                              | 10/4/2019  | Annual       | 10/4/2020  | 166462        |
| Rohde & Schwarz       | CMW500          | Wideband Radio Communication Tester                     | 2/4/2020   | Annual       | 2/4/2021   | 162125        |
| Rohde & Schwarz       | CMW500          | Wideband Radio Communication Tester                     | 11/14/2019 | Annual       | 11/14/2020 | 164948        |
| Rohde & Schwarz       | ZNLS6           | Vector Network Analyzer                                 | 10/11/2019 | Annual       | 10/11/2020 | 101307        |
| Rohde & Schwarz       | CHL200          | Base Station Simulator                                  | 6/2/2019   | Annual       | 6/2/2020   | 100892        |
| Rohde & Schwarz       | CMW500          | Wideband Radio Communication Tester                     | 7/12/2019  | Annual       | 7/12/2020  | 145645        |
| Rohde & Schwarz       | CMW500          | Wideband Radio Communication Tester                     | 7/24/2019  | Annual       | 7/24/2020  | 151849        |
| SPEAG                 | D1750V2         | 1750 MHz SAR Dipole                                     | 10/23/2018 | Biennial     | 10/23/2020 | 1150          |
| SPEAG                 | D1760V2         | 1765 MHz SAR Dipole                                     | 5/23/2018  | Triennial    | 5/23/2021  | 1008          |
| SPEAG                 | D1900V2         | 1900 MHz SAR Dipole                                     | 10/23/2018 | Biennial     | 10/23/2020 | 54080         |
| SPEAG                 | D1900V2         | 1900 MHz SAR Dipole                                     | 2/21/2019  | Biennial     | 2/21/2021  | 56148         |
| SPEAG                 | D2300V2         | 2300 MHz SAR Dipole                                     | 8/13/2018  | Biennial     | 8/13/2020  | 1079          |
| SPEAG                 | D2450V2         | 2450 MHz SAR Dipole                                     | 8/14/2019  | Annual       | 8/14/2020  | 719           |
| SPEAG                 | D2450V2         | 2450 MHz SAR Dipole                                     | 9/12/2017  | Triennial    | 9/12/2020  | 797           |
| SPEAG                 | D2600V2         | 2600 MHz SAR Dipole                                     | 6/14/2019  | Annual       | 6/14/2020  | 1064          |
| SPEAG                 | D3500V2         | 3500 MHz SAR Dipole                                     | 1/11/2018  | Triennial    | 1/11/2021  | 1059          |
| SPEAG                 | D3700V2         | 3700 MHz SAR Dipole                                     | 1/11/2018  | Triennial    | 1/11/2021  | 1018          |
| SPEAG                 | D5GHV2          | 5 GHz SAR Dipole                                        | 1/16/2018  | Triennial    | 1/16/2021  | 1057          |
| SPEAG                 | D5GHV2          | 5 GHz SAR Dipole                                        | 9/12/2019  | Annual       | 9/12/2020  | 1191          |
| SPEAG                 | D750V3          | 750 MHz SAR Dipole                                      | 3/16/2020  | Annual       | 3/16/2021  | 1003          |
| SPEAG                 | D750V3          | 750 MHz SAR Dipole                                      | 10/19/2018 | Biennial     | 10/19/2020 | 1161          |
| SPEAG                 | D835V2          | 835 MHz SAR Dipole                                      | 3/13/2019  | Biennial     | 3/13/2021  | 48047         |
| SPEAG                 | D835V2          | 835 MHz SAR Dipole                                      | 10/19/2018 | Biennial     | 10/19/2020 | 46133         |
| SPEAG                 | D835V2          | 835 MHz SAR Dipole                                      | 1/13/2020  | Annual       | 1/13/2021  | 46132         |
| SPEAG                 | DAE4            | Daisy Data Acquisition Electronics                      | 12/18/2019 | Annual       | 12/18/2020 | 859           |
| SPEAG                 | DAE4            | Daisy Data Acquisition Electronics                      | 7/11/2019  | Annual       | 7/11/2020  | 1323          |
| SPEAG                 | DAE4            | Daisy Data Acquisition Electronics                      | 9/17/2019  | Annual       | 9/17/2020  | 1333          |
| SPEAG                 | DAE4            | Daisy Data Acquisition Electronics                      | 7/11/2019  | Annual       | 7/11/2020  | 1322          |
| SPEAG                 | DAE4            | Daisy Data Acquisition Electronics                      | 6/20/2019  | Annual       | 6/20/2020  | 1334          |
| SPEAG                 | DAE4            | Daisy Data Acquisition Electronics                      | 3/12/2020  | Annual       | 3/12/2021  | 1368          |
| SPEAG                 | DAE4            | Daisy Data Acquisition Electronics                      | 4/15/2020  | Annual       | 4/15/2021  | 1407          |
| SPEAG                 | DAE4            | Daisy Data Acquisition Electronics                      | 9/12/2019  | Annual       | 9/12/2020  | 1449          |
| SPEAG                 | DAE4            | Daisy Data Acquisition Electronics                      | 1/13/2020  | Annual       | 1/13/2021  | 1530          |
| SPEAG                 | DAE4            | Daisy Data Acquisition Electronics                      | 1/13/2020  | Annual       | 1/13/2021  | 1558          |
| SPEAG                 | DAE4            | Daisy Data Acquisition Electronics                      | 12/5/2019  | Annual       | 12/5/2020  | 1533          |
| SPEAG                 | DAK-3.5         | Dielectric Assessment Kit                               | 10/22/2019 | Annual       | 10/22/2020 | 1093          |
| SPEAG                 | EX30V4          | SAR Probe                                               | 1/21/2020  | Annual       | 1/21/2021  | 7589          |
| SPEAG                 | EX30V4          | SAR Probe                                               | 9/19/2019  | Annual       | 9/19/2020  | 7553          |
| SPEAG                 | EX30V4          | SAR Probe                                               | 4/21/2020  | Annual       | 4/21/2021  | 7557          |
| SPEAG                 | EX30V4          | SAR Probe                                               | 6/19/2019  | Annual       | 6/19/2020  | 7409          |
| SPEAG                 | EX30V4          | SAR Probe                                               | 7/16/2019  | Annual       | 7/16/2020  | 7410          |
| SPEAG                 | EX30V4          | SAR Probe                                               | 1/21/2020  | Annual       | 1/21/2021  | 7488          |
| SPEAG                 | EX30V4          | SAR Probe                                               | 3/17/2020  | Annual       | 3/17/2021  | 7527          |
| SPEAG                 | EX30V4          | SAR Probe                                               | 7/15/2019  | Annual       | 7/15/2020  | 7547          |
| SPEAG                 | EX30V4          | SAR Probe                                               | 9/19/2019  | Annual       | 9/19/2020  | 7552          |
| SPEAG                 | EX30V4          | SAR Probe                                               | 12/11/2019 | Annual       | 12/11/2020 | 7510          |
| SPEAG                 | EX30V4          | SAR Probe                                               | 12/11/2019 | Annual       | 12/11/2020 | 7571          |

Note:

1. CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements.
2. Each equipment item was used solely within its respective calibration period.

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 301 of 305                        |

# 16 MEASUREMENT UNCERTAINTIES

| a                                                                             | c             | d              | e=<br>f(d,k) | f                     | g                        | h =<br>c x f/e                 | i =<br>c x g/e                   | k              |
|-------------------------------------------------------------------------------|---------------|----------------|--------------|-----------------------|--------------------------|--------------------------------|----------------------------------|----------------|
| Uncertainty Component                                                         | Tol.<br>(± %) | Prob.<br>Dist. | Div.         | c <sub>i</sub><br>1gm | c <sub>i</sub><br>10 gms | 1gm<br>u <sub>i</sub><br>(± %) | 10gms<br>u <sub>i</sub><br>(± %) | v <sub>i</sub> |
| <b>Measurement System</b>                                                     |               |                |              |                       |                          |                                |                                  |                |
| Probe Calibration                                                             | 6.55          | N              | 1            | 1.0                   | 1.0                      | 6.6                            | 6.6                              | ∞              |
| Axial Isotropy                                                                | 0.25          | N              | 1            | 0.7                   | 0.7                      | 0.2                            | 0.2                              | ∞              |
| Hemishperical Isotropy                                                        | 1.3           | N              | 1            | 0.7                   | 0.7                      | 0.9                            | 0.9                              | ∞              |
| Boundary Effect                                                               | 2.0           | R              | 1.73         | 1.0                   | 1.0                      | 1.2                            | 1.2                              | ∞              |
| Linearity                                                                     | 0.3           | N              | 1            | 1.0                   | 1.0                      | 0.3                            | 0.3                              | ∞              |
| System Detection Limits                                                       | 0.25          | R              | 1.73         | 1.0                   | 1.0                      | 0.1                            | 0.1                              | ∞              |
| Readout Electronics                                                           | 0.3           | N              | 1            | 1.0                   | 1.0                      | 0.3                            | 0.3                              | ∞              |
| Response Time                                                                 | 0.8           | R              | 1.73         | 1.0                   | 1.0                      | 0.5                            | 0.5                              | ∞              |
| Integration Time                                                              | 2.6           | R              | 1.73         | 1.0                   | 1.0                      | 1.5                            | 1.5                              | ∞              |
| RF Ambient Conditions - Noise                                                 | 3.0           | R              | 1.73         | 1.0                   | 1.0                      | 1.7                            | 1.7                              | ∞              |
| RF Ambient Conditions - Reflections                                           | 3.0           | R              | 1.73         | 1.0                   | 1.0                      | 1.7                            | 1.7                              | ∞              |
| Probe Positioner Mechanical Tolerance                                         | 0.4           | R              | 1.73         | 1.0                   | 1.0                      | 0.2                            | 0.2                              | ∞              |
| Probe Positioning w/ respect to Phantom                                       | 6.7           | R              | 1.73         | 1.0                   | 1.0                      | 3.9                            | 3.9                              | ∞              |
| Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation | 4.0           | R              | 1.73         | 1.0                   | 1.0                      | 2.3                            | 2.3                              | ∞              |
| <b>Test Sample Related</b>                                                    |               |                |              |                       |                          |                                |                                  |                |
| Test Sample Positioning                                                       | 2.7           | N              | 1            | 1.0                   | 1.0                      | 2.7                            | 2.7                              | 35             |
| Device Holder Uncertainty                                                     | 1.67          | N              | 1            | 1.0                   | 1.0                      | 1.7                            | 1.7                              | 5              |
| Output Power Variation - SAR drift measurement                                | 5.0           | R              | 1.73         | 1.0                   | 1.0                      | 2.9                            | 2.9                              | ∞              |
| SAR Scaling                                                                   | 0.0           | R              | 1.73         | 1.0                   | 1.0                      | 0.0                            | 0.0                              | ∞              |
| <b>Phantom &amp; Tissue Parameters</b>                                        |               |                |              |                       |                          |                                |                                  |                |
| Phantom Uncertainty (Shape & Thickness tolerances)                            | 7.6           | R              | 1.73         | 1.0                   | 1.0                      | 4.4                            | 4.4                              | ∞              |
| Liquid Conductivity - measurement uncertainty                                 | 4.2           | N              | 1            | 0.78                  | 0.71                     | 3.3                            | 3.0                              | 10             |
| Liquid Permittivity - measurement uncertainty                                 | 4.1           | N              | 1            | 0.23                  | 0.26                     | 1.0                            | 1.1                              | 10             |
| Liquid Conductivity - Temperature Uncertainty                                 | 3.4           | R              | 1.73         | 0.78                  | 0.71                     | 1.5                            | 1.4                              | ∞              |
| Liquid Permittivity - Temperature Uncertainty                                 | 0.6           | R              | 1.73         | 0.23                  | 0.26                     | 0.1                            | 0.1                              | ∞              |
| Liquid Conductivity - deviation from target values                            | 5.0           | R              | 1.73         | 0.64                  | 0.43                     | 1.8                            | 1.2                              | ∞              |
| Liquid Permittivity - deviation from target values                            | 5.0           | R              | 1.73         | 0.60                  | 0.49                     | 1.7                            | 1.4                              | ∞              |
| <b>Combined Standard Uncertainty (k=1)</b>                                    | RSS           |                |              |                       |                          | 11.5                           | 11.3                             | 60             |
| <b>Expanded Uncertainty</b><br>(95% CONFIDENCE LEVEL)                         | k=2           |                |              |                       |                          | 23.0                           | 22.6                             |                |

|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 302 of 305                        |

## 17 CONCLUSION

### 17.1 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Innovation, Science, and Economic Development Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

|                                      |                                                                                                                                                        |                               |                                                                                       |                                 |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                   |  <b>PCTEST</b><br><small>Proud to be part of the ROHM group</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004170065-01.A3L | Test Dates:<br>04/22/20 - 06/07/20                                                                                                                     | DUT Type:<br>Portable Handset |                                                                                       | Page 303 of 305                 |

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|                                             |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 304 of 305                        |



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|                                             |                                                                                                                                                        |                                      |                                                                                       |                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                          |  <b>PCTEST</b><br><small>Proud to be part of the ROHM group</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004170065-01.A3L | <b>Test Dates:</b><br>04/22/20 - 06/07/20                                                                                                              | <b>DUT Type:</b><br>Portable Handset |                                                                                       | Page 305 of 305                        |

## APPENDIX A: SAR TEST DATA

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0120M**

Communication System: UID 0, Cellular CDMA; Frequency: 820.1 MHz; Duty Cycle: 1:1

Medium: 835 Head; Medium parameters used (interpolated):

$f = 820.1 \text{ MHz}$ ;  $\sigma = 0.88 \text{ S/m}$ ;  $\epsilon_r = 40.668$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 05/11/2020; Ambient Temp: 21.9°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7551; ConvF(9.88, 9.88, 9.88) @ 820.1 MHz; Calibrated: 9/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1333; Calibrated: 9/17/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: Cell. EVDO Rev. A, Rule Part 90S, Left Head, Cheek, Mid.ch**

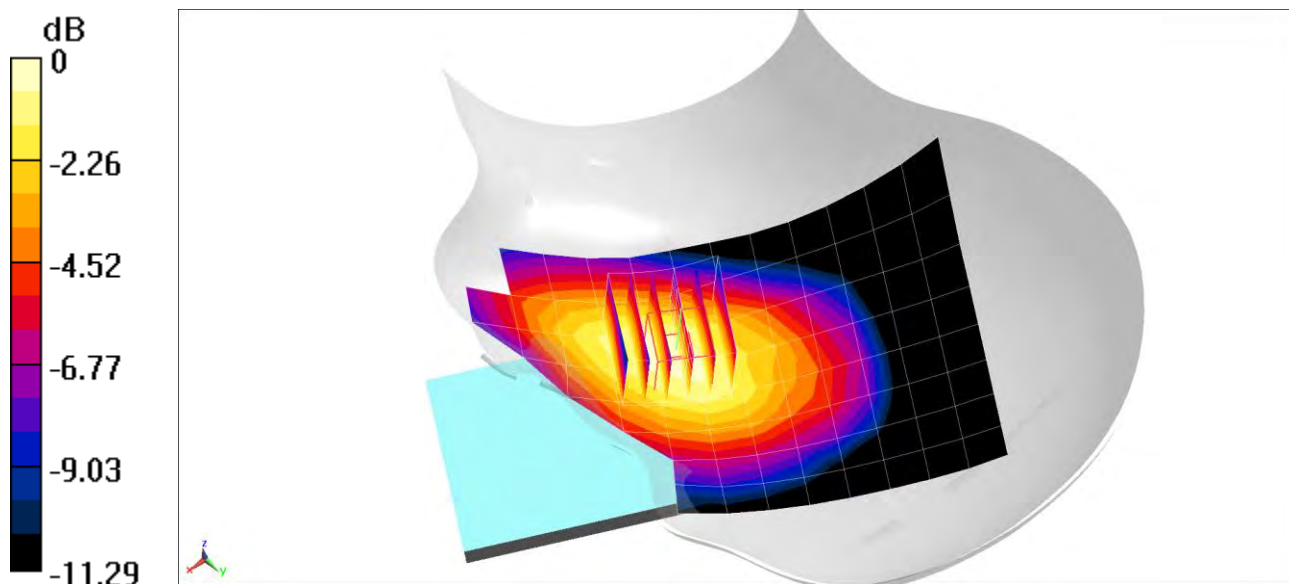
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 14.88 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.247 W/kg

**SAR(1 g) = 0.188 W/kg**



0 dB = 0.227 W/kg = -6.44 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0120M**

Communication System: UID 0, Cellular CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: 835 Head; Medium parameters used (interpolated):

$f = 836.52$  MHz;  $\sigma = 0.886$  S/m;  $\epsilon_r = 40.617$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Test Date: 05/11/2020; Ambient Temp: 21.9°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7551; ConvF(9.88, 9.88, 9.88) @ 836.52 MHz; Calibrated: 9/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1333; Calibrated: 9/17/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: Cell. EVDO Rev. A, Rule Part 22H, Left Head, Cheek, Mid.ch**

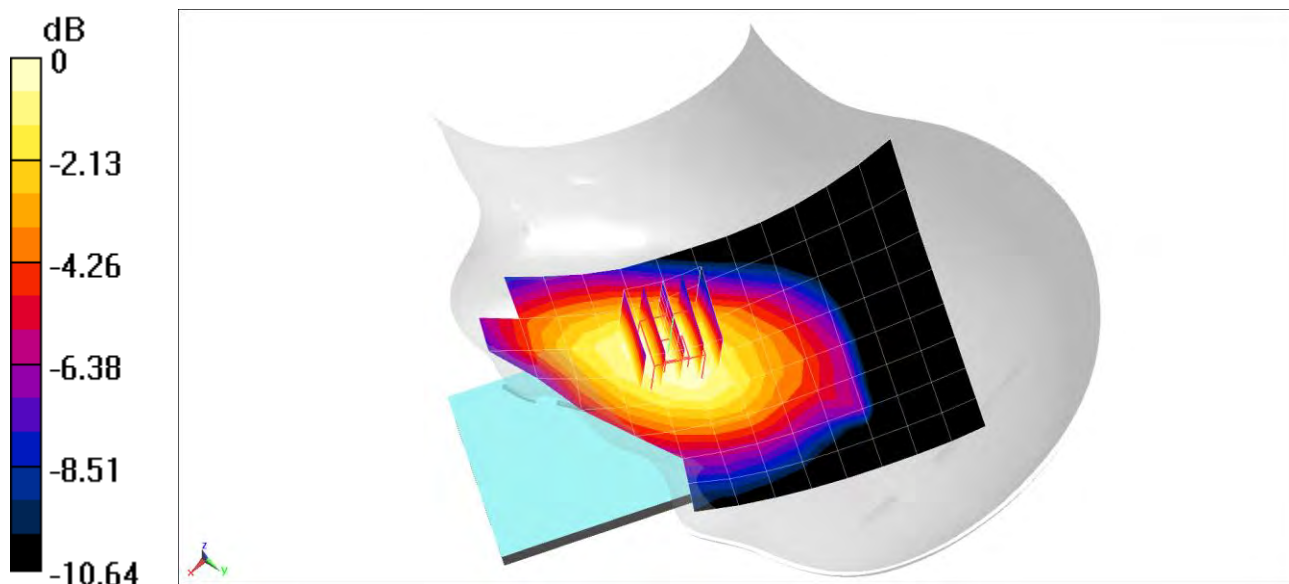
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.23 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.199 W/kg

**SAR(1 g) = 0.150 W/kg**



0 dB = 0.180 W/kg = -7.45 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0116M**

Communication System: UID 0, CDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900 Head; Medium parameters used:

$f = 1880 \text{ MHz}$ ;  $\sigma = 1.438 \text{ S/m}$ ;  $\epsilon_r = 40.978$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 05/11/2020; Ambient Temp: 21.8°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7410; ConvF(8.11, 8.11, 8.11) @ 1880 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1966

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: PCS EVDO Rev A, Right Head, Cheek, Mid.ch**

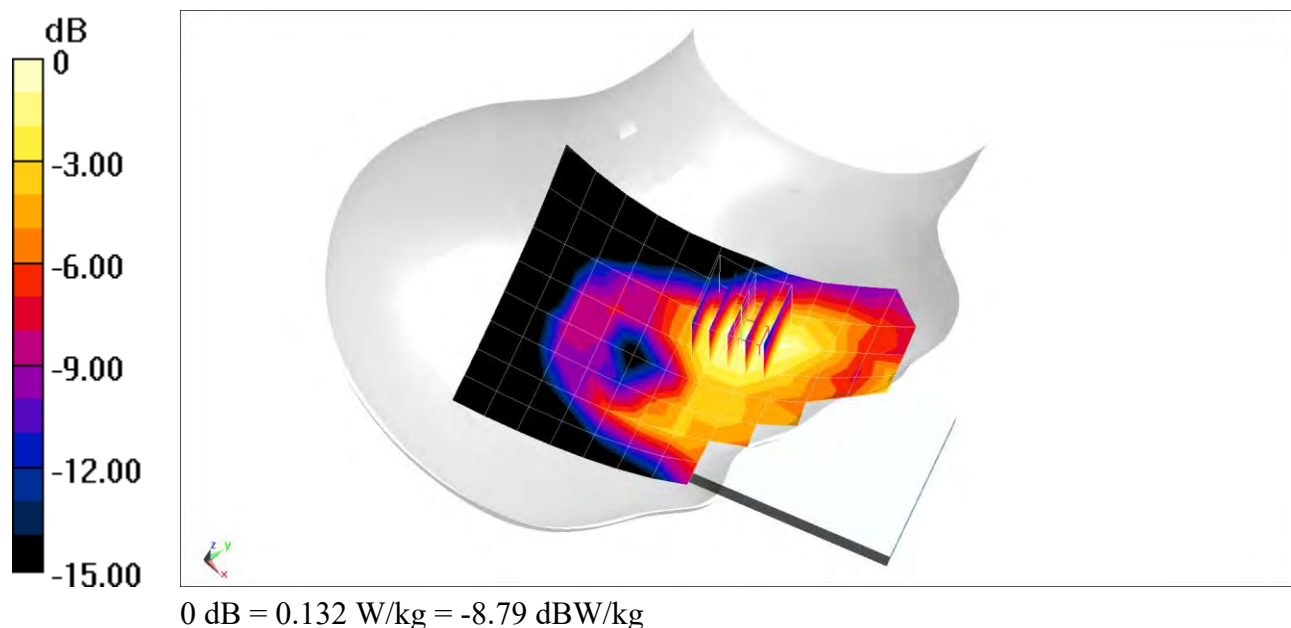
**Area Scan (9x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 8.909 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.155 W/kg

**SAR(1 g) = 0.104 W/kg**



# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0120M**

Communication System: UID 0, GSM; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: 835 Head; Medium parameters used (interpolated):

$f = 836.6$  MHz;  $\sigma = 0.886$  S/m;  $\epsilon_r = 40.617$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Test Date: 05/11/2020; Ambient Temp: 21.9°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7551; ConvF(9.88, 9.88, 9.88) @ 836.6 MHz; Calibrated: 9/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1333; Calibrated: 9/17/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: GSM 850, Left Head, Cheek, Mid.ch**

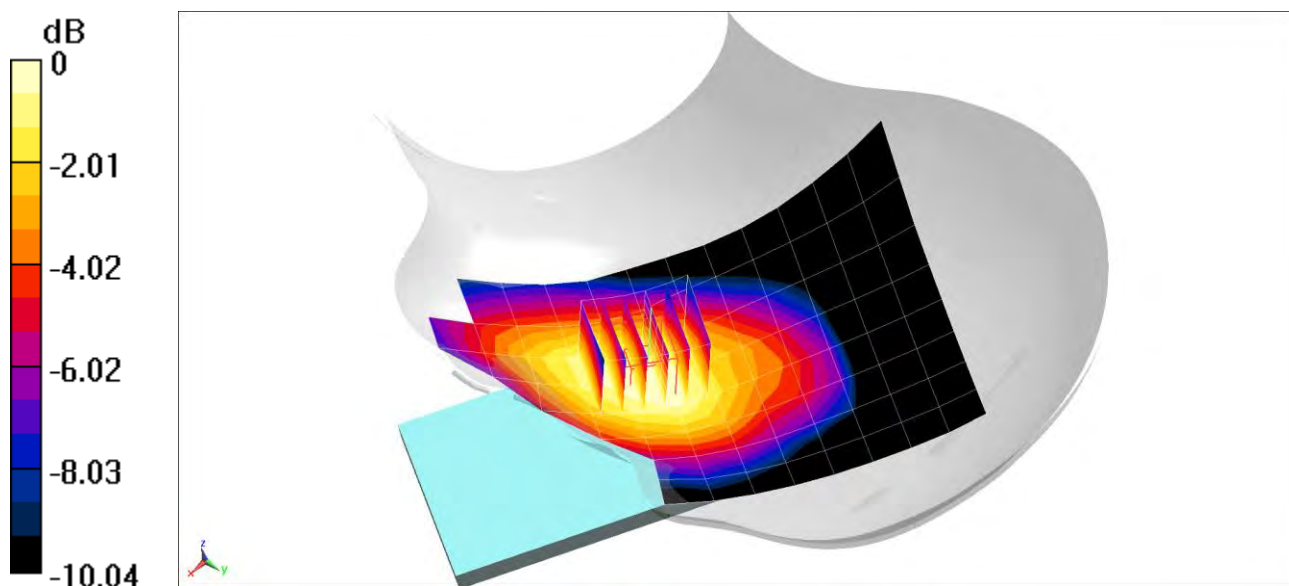
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.084 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.0560 W/kg

**SAR(1 g) = 0.041 W/kg**



0 dB = 0.0497 W/kg = -13.04 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0116M**

Communication System: UID 0, GSM; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: 1900 Head; Medium parameters used:

$f = 1880$  MHz;  $\sigma = 1.438$  S/m;  $\epsilon_r = 40.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Test Date: 05/11/2020; Ambient Temp: 21.8°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7410; ConvF(8.11, 8.11, 8.11) @ 1880 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1966

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: GSM 1900, Right Head, Cheek, Mid.ch**

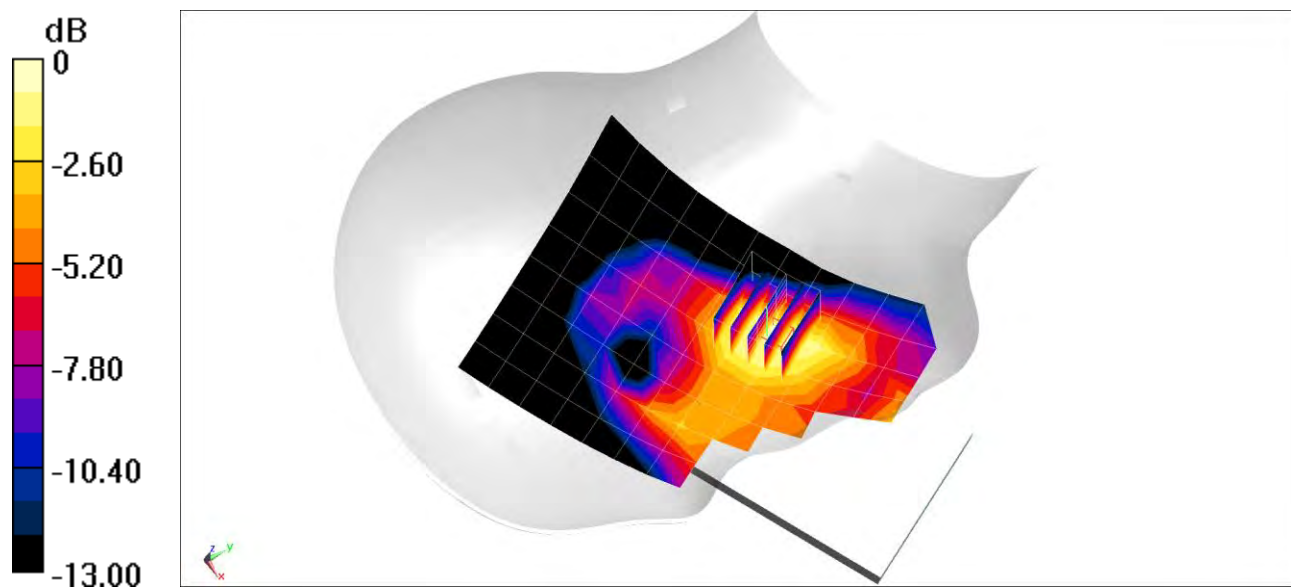
**Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.948 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.0710 W/kg

**SAR(1 g) = 0.047 W/kg**



0 dB = 0.0619 W/kg = -12.08 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0120M**

Communication System: UID 0, UMTS; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium: 835 Head; Medium parameters used (interpolated):

$f = 836.6 \text{ MHz}$ ;  $\sigma = 0.874 \text{ S/m}$ ;  $\epsilon_r = 41.94$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 05/06/2020; Ambient Temp: 21.3°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7551; ConvF(9.88, 9.88, 9.88) @ 836.6 MHz; Calibrated: 9/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1333; Calibrated: 9/17/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: UMTS 850, Left Head, Cheek, Mid.ch**

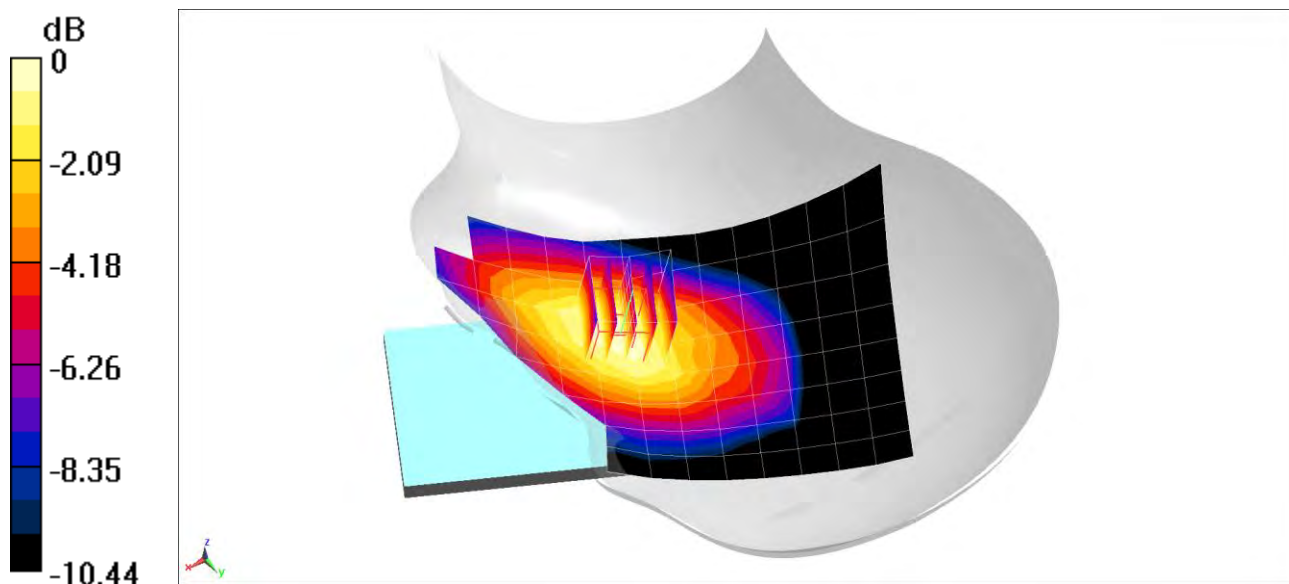
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 12.78 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.189 W/kg

**SAR(1 g) = 0.142 W/kg**



0 dB = 0.173 W/kg = -7.62 dBW/kg



# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0116M**

Communication System: UID 0, UMTS; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium: 1750 Head; Medium parameters used (interpolated):

$f = 1732.4$  MHz;  $\sigma = 1.326$  S/m;  $\epsilon_r = 40.642$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Test Date: 05/13/2020; Ambient Temp: 23.9°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7410; ConvF(8.46, 8.46, 8.46) @ 1732.4 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1966

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: UMTS 1750, Right Head, Cheek, Mid.ch**

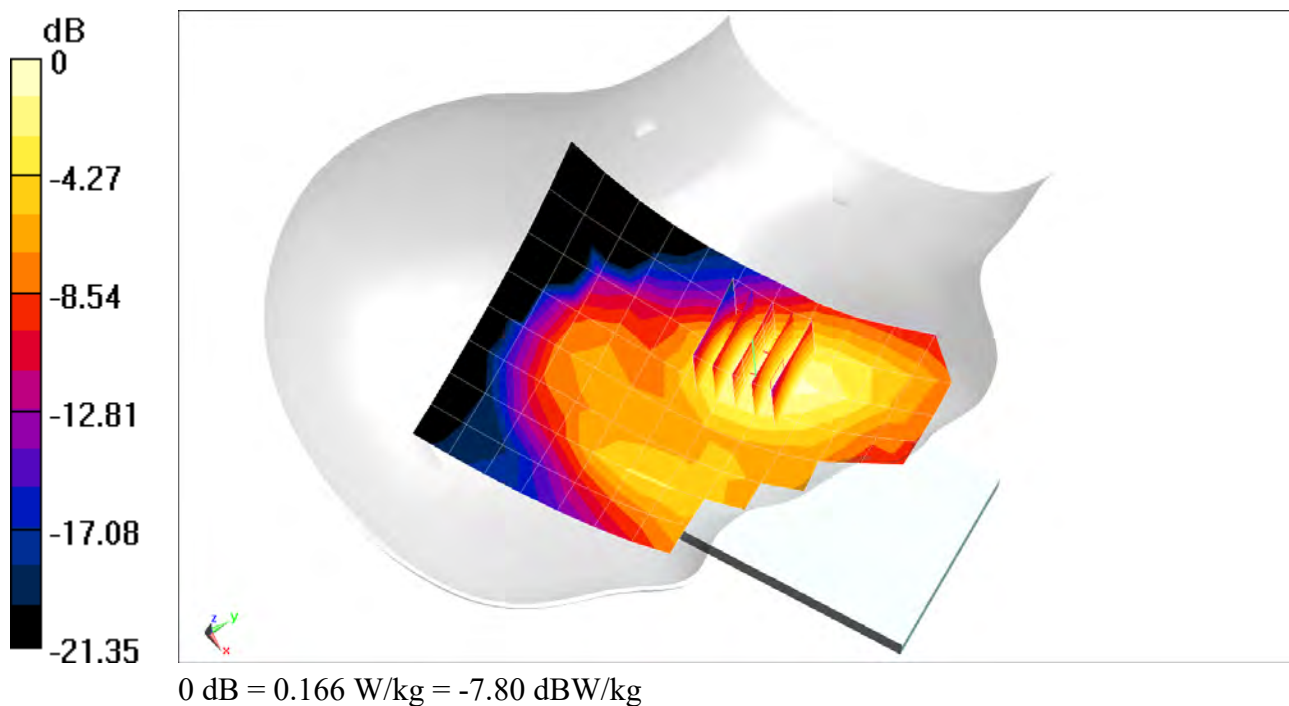
**Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.25 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.193 W/kg

**SAR(1 g) = 0.129 W/kg**



# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0116M**

Communication System: UID 0, UMTS; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: 1900 Head; Medium parameters used:

$f = 1880$  MHz;  $\sigma = 1.438$  S/m;  $\epsilon_r = 40.978$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Test Date: 05/11/2020; Ambient Temp: 21.8°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7410; ConvF(8.11, 8.11, 8.11) @ 1880 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1966

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: UMTS 1900, Right Head, Cheek, Mid.ch**

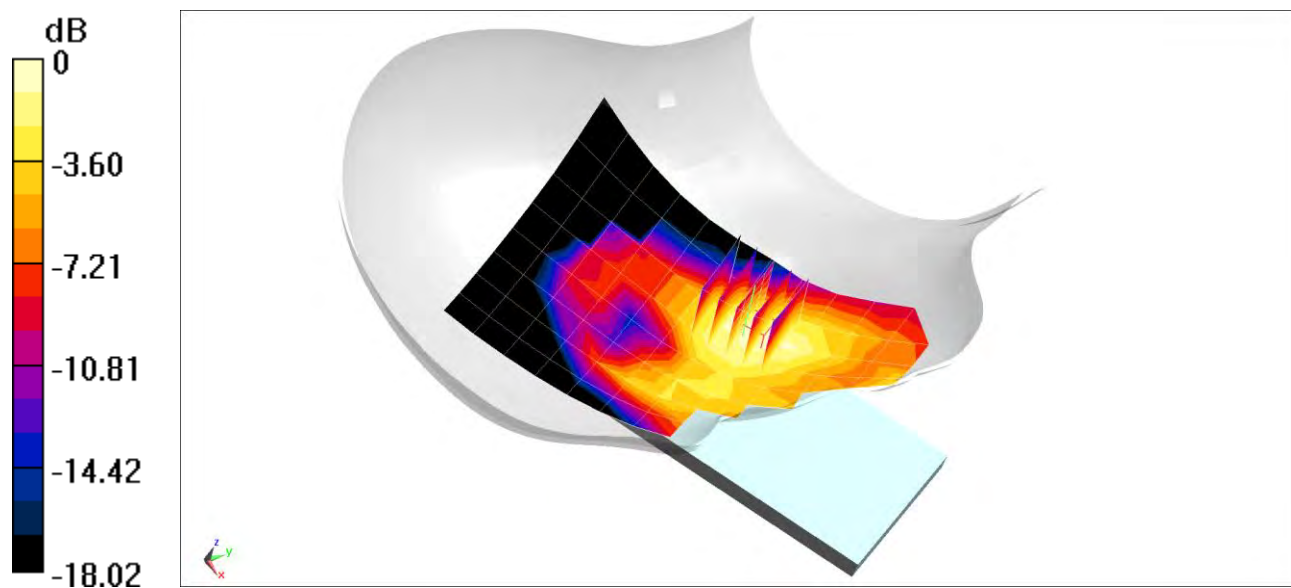
**Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.307 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.139 W/kg

**SAR(1 g) = 0.094 W/kg**



0 dB = 0.120 W/kg = -9.21 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0061M**

Communication System: UID 0, LTE Band 71; Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium: 750 Head; Medium parameters used (interpolated):

$f = 680.5 \text{ MHz}$ ;  $\sigma = 0.884 \text{ S/m}$ ;  $\epsilon_r = 42.697$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 05/17/2020; Ambient Temp: 22.3°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN3589; ConvF(8.7, 8.7, 8.7) @ 680.5 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 71, Left Head, Cheek, Mid.ch**  
**20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

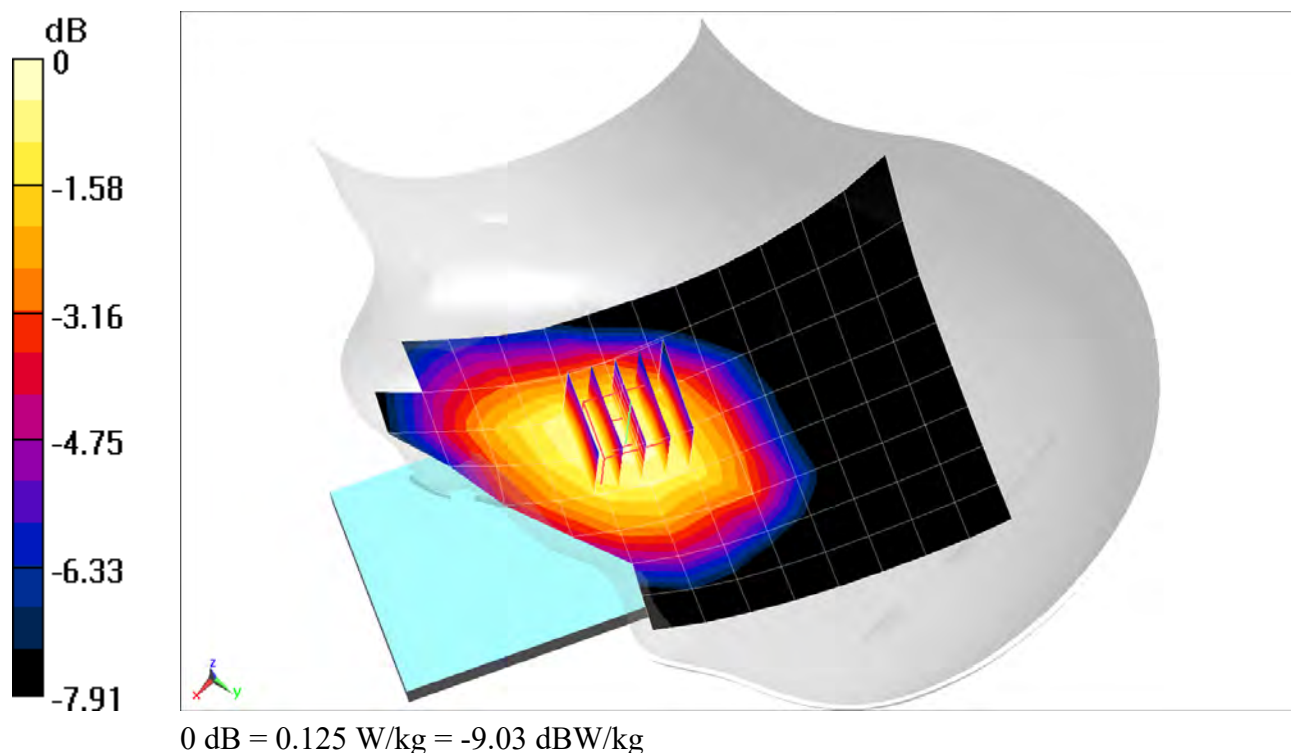
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 11.48 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.134 W/kg

**SAR(1 g) = 0.106 W/kg**



# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0061M**

Communication System: UID 0, LTE Band 12; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: 750 Head; Medium parameters used (interpolated):

$f = 707.5 \text{ MHz}$ ;  $\sigma = 0.857 \text{ S/m}$ ;  $\epsilon_r = 43.663$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 05/13/2020; Ambient Temp: 21.6°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN3589; ConvF(8.7, 8.7, 8.7) @ 707.5 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 12, Left Head, Cheek, Mid.ch**  
**10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

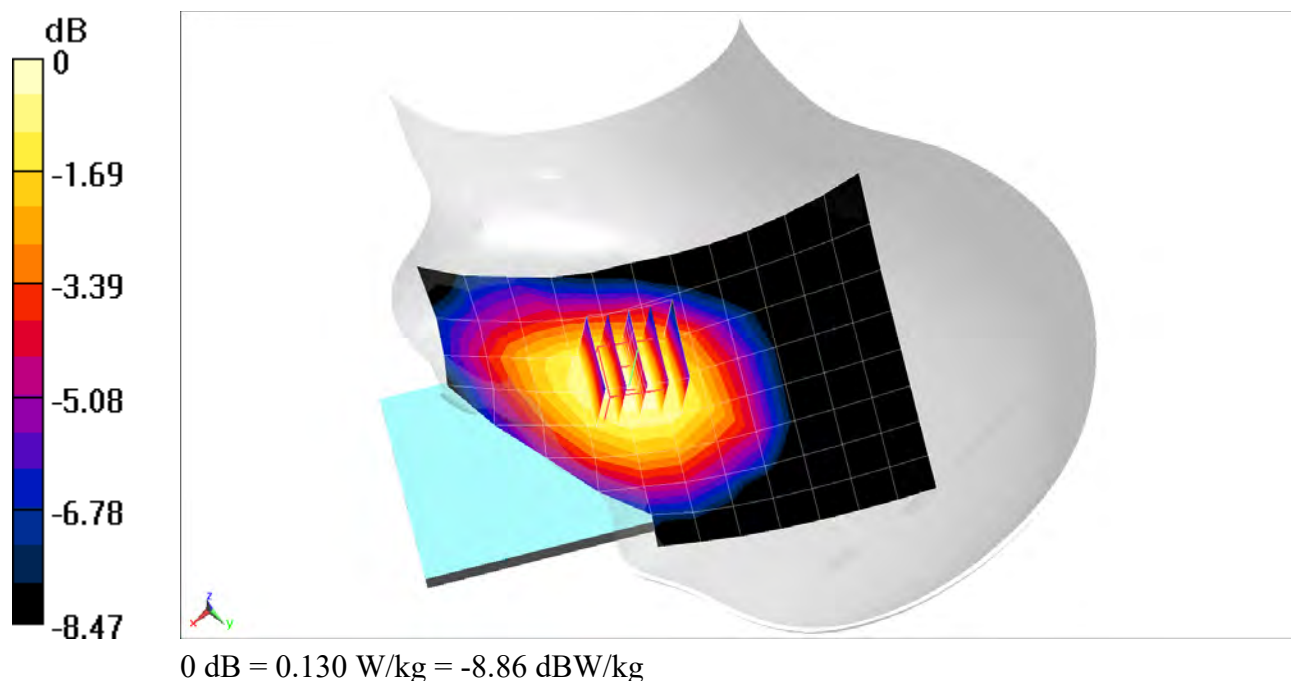
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 11.96 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.140 W/kg

**SAR(1 g) = 0.111 W/kg**



# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0122M**

Communication System: UID 0, LTE Band 13; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: 750 Head; Medium parameters used (interpolated):

$f = 782 \text{ MHz}$ ;  $\sigma = 0.919 \text{ S/m}$ ;  $\epsilon_r = 42.382$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 05/17/2020; Ambient Temp: 22.3°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN3589; ConvF(8.7, 8.7, 8.7) @ 782 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 13, Left Head, Cheek, Mid.ch**  
**10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset**

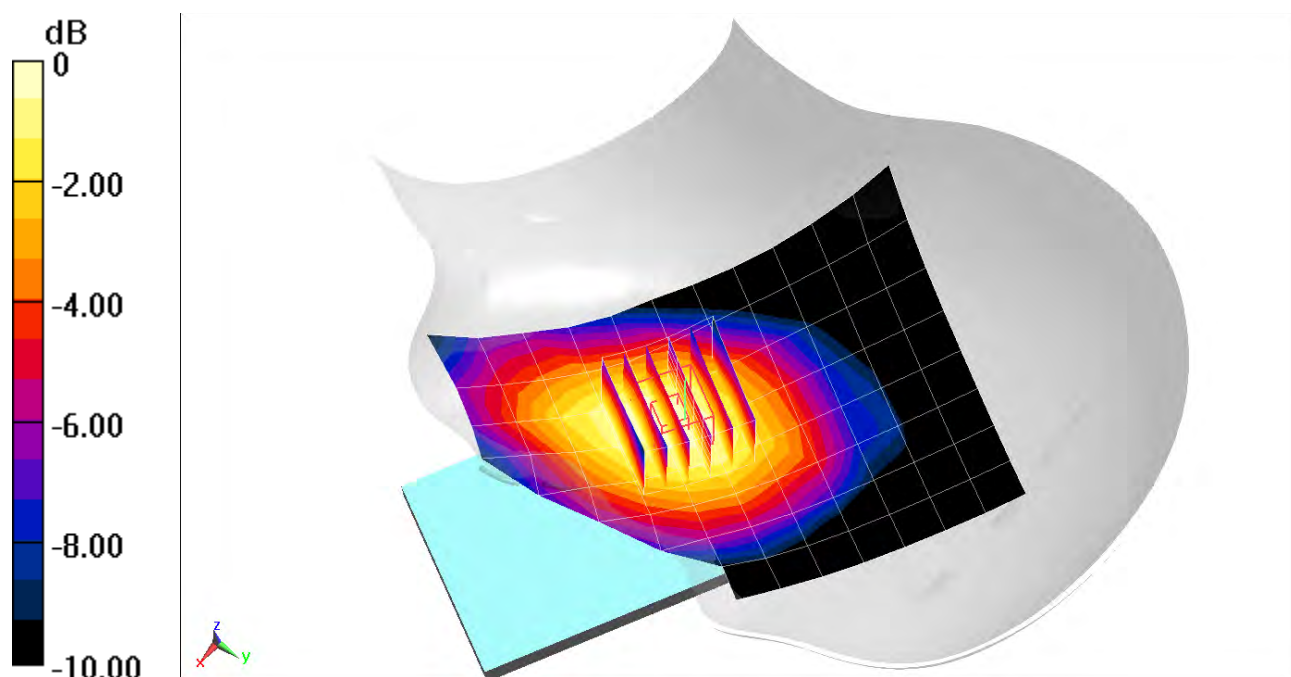
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 15.93 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.276 W/kg

**SAR(1 g) = 0.213 W/kg**



0 dB = 0.250 W/kg = -6.02 dBW/kg