



## SAR EVALUATION REPORT

**Applicant Name:**  
LG Electronics U.S.A., Inc.  
111 Sylvan Avenue, North Building  
Englewood Cliffs, NJ 07632  
United States

**Date of Testing:**  
04/27/20 – 06/25/20  
**Test Site/Location:**  
PCTEST, Columbia, MD, USA  
**Document Serial No.:**  
1M2004150063-01-R1.ZNF

**FCC ID:** **ZNFG900UM**

**APPLICANT:** **LG ELECTRONICS U.S.A., INC.**

**DUT Type:** Portable Handset  
**Application Type:** Class II Permissive Change  
**FCC Rule Part(s):** CFR §2.1093  
**Model:** LM-G900UM  
**Additional Model(s):** LMG900UM, G900UM, LM-G900QM, LMG900QM, G900QM, LM-G901V, LMG901V, G901V  
**Permissive Change(s):** See FCC Change Document  
**Date of Original Certification** 06/30/2020

| Equipment Class                            | Band & Mode        | Tx Frequency          | SAR            |                     |                   |                    |
|--------------------------------------------|--------------------|-----------------------|----------------|---------------------|-------------------|--------------------|
|                                            |                    |                       | 1g Head (W/kg) | 1g Body-Worn (W/kg) | 1g Hotspot (W/kg) | 10g Phablet (W/kg) |
| PCE                                        | Cell. CDMA/EVDO    | 824.70 - 848.31 MHz   | 0.17           | 0.61                | 0.57              | N/A                |
| PCE                                        | PCS CDMA/EVDO      | 1851.25 - 1908.75 MHz | 0.13           | 0.85                | 0.94              | 2.71               |
| PCE                                        | GSM/GPRS/EDGE 850  | 824.20 - 848.80 MHz   | 0.13           | 0.57                | 0.57              | N/A                |
| PCE                                        | GSM/GPRS/EDGE 1900 | 1850.20 - 1908.80 MHz | < 0.1          | 0.41                | 0.90              | N/A                |
| PCE                                        | UMTS 850           | 826.40 - 846.60 MHz   | 0.16           | 0.58                | 0.58              | N/A                |
| PCE                                        | UMTS 1755          | 1712.4 - 1752.6 MHz   | 0.10           | 0.77                | 0.79              | 2.89               |
| PCE                                        | UMTS 1900          | 1852.4 - 1907.6 MHz   | 0.11           | 0.85                | 0.92              | 2.40               |
| PCE                                        | LTE Band 71        | 665.5 - 695.5 MHz     | 0.12           | 0.36                | 0.36              | N/A                |
| PCE                                        | LTE Band 12        | 699.7 - 715.3 MHz     | 0.14           | 0.39                | 0.39              | N/A                |
| PCE                                        | LTE Band 17        | 706.5 - 713.5 MHz     | N/A            | N/A                 | N/A               | N/A                |
| PCE                                        | LTE Band 13        | 779.5 - 784.5 MHz     | 0.16           | 0.43                | 0.43              | N/A                |
| PCE                                        | LTE Band 14        | 799.5 - 799.5 MHz     | 0.13           | 0.43                | 0.43              | N/A                |
| PCE                                        | LTE Band 5 (Cell)  | 824.7 - 848.3 MHz     | 0.18           | 0.61                | 0.61              | N/A                |
| PCE                                        | LTE Band 66 (AWS)  | 1710.7 - 1779.3 MHz   | 0.13           | 0.82                | 0.78              | 2.64               |
| PCE                                        | LTE Band 4 (AWS)   | 1710.7 - 1754.3 MHz   | N/A            | N/A                 | N/A               | N/A                |
| PCE                                        | LTE Band 2 (PCS)   | 1950.7 - 1909.3 MHz   | < 0.1          | 0.12                | 0.29              | N/A                |
| PCE                                        | LTE Band 25 (PCS)  | 1850.7 - 1914.3 MHz   | 0.14           | 0.92                | 0.99              | 2.82               |
| PCE                                        | LTE Band 30        | 2307.5 - 2312.5 MHz   | 0.10           | 0.61                | 0.93              | N/A                |
| PCE                                        | LTE Band 7         | 2502.5 - 2567.5 MHz   | 0.18           | 0.77                | 0.81              | 3.05               |
| PCE                                        | LTE Band 41        | 2496.5 - 2607.5 MHz   | < 0.1          | 0.41                | 0.53              | 2.37               |
| PCE                                        | NR Band n71        | 665.5 - 695.5 MHz     | < 0.1          | < 0.1               | < 0.1             | N/A                |
| PCE                                        | NR Band n5 (Cell)  | 826.5 - 846.5 MHz     | 0.13           | 0.55                | 0.55              | N/A                |
| PCE                                        | NR Band n66 (AWS)  | 1712.5 - 1777.5 MHz   | 0.13           | 0.41                | 1.11              | 3.17               |
| PCE                                        | NR Band n25 (PCS)  | 1852.5 - 1912.5 MHz   | 0.22           | 0.62                | 0.95              | N/A                |
| 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 MHz | < 0.1          | 0.57                | 0.57              | N/A                |
| DTS                                        | 2.4 GHz WLAN       | 2412 - 2462 MHz       | 0.77           | 0.25                | 0.36              | N/A                |
| NII                                        | U-NII-1            | 5180 - 5240 MHz       | N/A            | N/A                 | 0.39              | N/A                |
| NII                                        | U-NII-2A           | 5250 - 5320 MHz       | 0.31           | 0.39                | N/A               | 1.56               |
| NII                                        | U-NII-2C           | 5500 - 5750 MHz       | 0.24           | 0.42                | N/A               | 0.74               |
| NII                                        | U-NII-3            | 5745 - 5825 MHz       | 0.14           | 0.26                | 0.26              | N/A                |
| DSS/DTSS                                   | Bluetooth          | 2402 - 2480 MHz       | 0.13           | < 0.1               | < 0.1             | N/A                |
| Simultaneous SAR per KDB 690783 D01v01r03: |                    |                       | 1.45           | 1.56                | 1.59              | 3.99               |

Note: This revised Test Report (S/N: 1M2004150063-01-R1.ZNF) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

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 1.10 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: ZNFG900UM                              |  | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004150063-01-R1.ZNF | <b>Test Dates:</b><br>04/27/20 – 06/25/20                                           | <b>DUT Type:</b><br>Portable Handset | Page 1 of 224                                                                         |                                        |

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# 1 DEVICE UNDER TEST

## 1.1 Device Overview

| Band & Mode        | Operating Modes | Tx Frequency          |
|--------------------|-----------------|-----------------------|
| 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   |
| Cell. CDMA/EVDO    | Voice/Data      | 824.70 - 848.31 MHz   |
| PCS CDMA/EVDO      | Voice/Data      | 1851.25 - 1908.75 MHz |
| LTE Band 71        | Voice/Data      | 665.5 - 695.5 MHz     |
| LTE Band 12        | Voice/Data      | 699.7 - 715.3 MHz     |
| LTE Band 17        | Voice/Data      | 706.5 - 713.5 MHz     |
| LTE Band 13        | Voice/Data      | 779.5 - 784.5 MHz     |
| LTE Band 14        | Voice/Data      | 790.5 - 795.5 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 2 (PCS)   | Voice/Data      | 1850.7 - 1909.3 MHz   |
| LTE Band 25 (PCS)  | Voice/Data      | 1850.7 - 1914.3 MHz   |
| LTE Band 30        | Voice/Data      | 2307.5 - 2312.5 MHz   |
| LTE Band 7         | Voice/Data      | 2502.5 - 2567.5 MHz   |
| LTE Band 41        | Voice/Data      | 2498.5 - 2687.5 MHz   |
| NR Band n71        | Data            | 665.5 - 695.5 MHz     |
| NR Band n5         | Data            | 826.5 - 846.5 MHz     |
| NR Band n66        | Data            | 1712.5 - 1777.5 MHz   |
| NR Band n2         | Data            | 1852.5 - 1907.5 MHz   |
| NR Band n25        | Data            | 1852.5 - 1912.5 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             |
| WMC                | Data            | 500 Hz - 4 kHz        |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 3 of 224                   |

## 1.2 Time-Averaging Algorithm for RF Exposure Compliance

The equipment under test (EUT) contains:

Qualcomm® SM7250 modem supporting 2G/3G/4G/5G NR WWAN technologies

Qualcomm® SM7250 modem is 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 1.12 – Bibliography).

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*, below the predefined time-averaged power limit (i.e.,  $P_{limit}$  for sub-6 radio), for each characterized technology and band (see RF Exposure Part 0 Test Report, report SN could be found in Section 1.12 - 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 +1.0/-1.0 dB for this EUT.

| Exposure Scenario:     | Head    | Body-Worn   | Phablet    | Dual Screen 0° or 360° | Dual Screen 180° | Hotspot | Phablet | Maximum Tune-Up Output Power* |
|------------------------|---------|-------------|------------|------------------------|------------------|---------|---------|-------------------------------|
| Averaging Volume:      | 1g      | 1g          | 10g        | 1g/10g                 | 1g/10g           | 1g      | 10g     |                               |
| Spacing:               | 0 mm    | 10 mm       | 2, 1, 4 mm | 10 mm/ 0mm             | 10 mm/ 0mm       | 10 mm   | 0 mm    |                               |
| DSI:                   | 1       |             |            | 6                      | 7                | 5       | 8       |                               |
| Technology/Band        | Antenna | $P_{limit}$ |            |                        |                  |         |         | $P_{max}$                     |
| GSM/GPRS/EDGE 850 MHz  | 1       | 28.6        |            | 27.3                   | 27.7             | 28.6    |         | 24.8                          |
| GSM/GPRS/EDGE 1900 MHz | 2       | 22.9        |            | 28.5                   | 25.8             | 22.9    |         | 22.6                          |
| UMTS B5                | 1       | 27.2        |            | 29.8                   | 25.8             | 27.2    |         | 24.5                          |
| UMTS B4                | 2       | 24.6        |            | 23.5                   |                  | 21.5    |         | 24.5                          |
| UMTS B2                | 2       | 24.8        |            | 23.5                   |                  | 21.5    |         | 24.5                          |
| CDMA/EVDO BC0          | 1       | 26.8        |            | 26.8                   |                  | 26.8    |         | 24.5                          |
| CDMA/EVDO BC1          | 2       | 24.6        |            | 23.5                   |                  | 21.5    |         | 24.5                          |
| LTE FDD B71            | 1       | 28.6        |            | 33.2                   | 33.8             | 28.6    |         | 24.5                          |
| LTE FDD B12/B17        | 1       | 28.9        |            | 32.2                   | 32.3             | 28.9    |         | 24.5                          |
| LTE FDD B12 ULCA       | 1       | 28.9        |            | 32.2                   | 32.3             | 28.9    |         | 17.0                          |
| LTE FDD B13            | 1       | 28.9        |            | 30.6                   | 27.0             | 28.9    |         | 24.5                          |
| LTE FDD B14            | 1       | 28.6        |            | 30.6                   | 27.0             | 28.6    |         | 24.5                          |
| LTE FDD B5             | 1       | 27.1        |            | 31.7                   | 27.7             | 27.1    |         | 24.5                          |
| LTE FDD B5 ULCA        | 1       | 27.1        |            | 31.5                   | 27.4             | 27.1    |         | 17.0                          |
| LTE FDD B66/B4         | 2       | 24.6        |            | 23.5                   |                  | 21.5    |         | 24.5                          |
| LTE FDD B66 ULCA       | 3       | 23.3        |            | 25.6                   | 25.5             | 23.3    |         | 17.0                          |
| LTE FDD B25/B2         | 2       | 24.7        |            | 23.5                   |                  | 21.5    |         | 24.5                          |
| LTE FDD B2 ULCA        | 3       | 23.5        |            | 26.2                   | 26.0             | 23.5    |         | 17.0                          |
| LTE FDD B30            | 2       | 27.1        |            | 23.5                   |                  | 22.5    |         | 22.0                          |
| LTE FDD B7             | 2       | 25.9        |            | 23.5                   |                  | 22.5    |         | 24.5                          |
| LTE TDD B41            | 2       | 26.7        |            | 25.9                   | 26.5             | 22.0    |         | 22.5                          |
| NR FDD n71             | 1       | 31.4        |            | 35.5                   | 31.4             | 31.4    |         | 23.8                          |
| NR FDD n5              | 1       | 27.1        |            | 31.9                   | 28.6             | 27.1    |         | 23.8                          |
| NR FDD n66             | 3       | 23.0        |            | 23.5                   |                  | 23.0    |         | 24.5                          |
| NR FDD n25/ n2         | 3       | 23.5        |            | 23.5                   |                  | 23.5    |         | 24.5                          |
| NR TDD n41             | 9       | 16.7        |            | 19.5                   | 19.0             | 16.7    |         | 17.7                          |

\*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). LTE B12/B5/B2/B66 is defined by ULCA PCC and Standalone, and LTE B12/B5/B2/B66 ULCA is defined by ULCA SCC. When they are operated by ULCA, the max power is 22.5 dBm (2 dB lower than standalone power).

|                                         |                                                                                                                                  |                               |                                                                                       |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset | Page 4 of 224                                                                         |                                 |

\*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 + 1.0dB device design uncertainty. For interband-ULCA scenarios, LTE Band 66/2/5/12 as SCC will operate as maximum allowed output power limited at 17.7 dBm according to software implementation in this model.

The maximum time-averaged output power (dBm) for any 2G/3G/4G/5G WWAN technology, band, and DSI = minimum of " $P_{limit}$  EFS" and "Maximum tune up output power  $P_{max}$ " +1.0/-1.0 dB 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.**

### 1.3 Power Reduction for SAR

This device uses an independent fixed level power reduction mechanism for WLAN operations during 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 Dual Display Cover

This device supports Dual Display (DD) Cover, which attaches to the device to provide a secondary display on the inside of the cover. The Dual Display Cover is free rotating from 0 to 360 degrees. Per FCC guidance, the use conditions of 0, 180 and 360 degrees were considered for SAR testing. SAR with the Dual Display Cover was measured for the overall worst case per each exposure condition (head, body-worn accessory, hotspot mode, etc.). Head SAR tests were performed with the accessory cover folded to 0 and 360 degrees to represent typical use conditions. Body-worn, Hotspot, and Phablet SAR tests were performed with accessory cover folded to 0, 180 and 360 degrees. When the output power for dual-display cover in a given exposure condition was higher than the power without the dual display cover, additional tests were performed at the higher output power level.

### 1.5 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.

#### 1.5.1 2G/3G/4G/5G Output Power

| GSM/GPRS/EDGE 850  |                   |                   |                                    |            |            |            |                                     |            |            |            |
|--------------------|-------------------|-------------------|------------------------------------|------------|------------|------------|-------------------------------------|------------|------------|------------|
| Device State Index |                   | Voice<br>(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 |
| All DSI            | Max allowed power | 33.5              | 33.5                               | 32.0       | 30.0       | 29.0       | 27.5                                | 27.0       | 26.0       | 25.0       |
|                    | Nominal           | 32.5              | 32.5                               | 31.0       | 29.0       | 28.0       | 26.5                                | 26.0       | 25.0       | 24.0       |
| GSM/GPRS/EDGE 1900 |                   |                   |                                    |            |            |            |                                     |            |            |            |
| Device State Index |                   | Voice<br>(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 |
| All DSI            | Max allowed power | 30.5              | 30.5                               | 29.0       | 28.0       | 26.0       | 26.5                                | 26.0       | 25.0       | 24.0       |
|                    | Nominal           | 29.5              | 29.5                               | 28.0       | 27.0       | 25.0       | 25.5                                | 25.0       | 24.0       | 23.0       |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| UMTS Band 5 (850 MHz)                                           |                   |                                            |                     |                     |                           |
|-----------------------------------------------------------------|-------------------|--------------------------------------------|---------------------|---------------------|---------------------------|
| Device State Index                                              |                   | 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 |
| All DSI                                                         | Max allowed power | 25.5                                       | 25.5                | 25.5                | 25.5                      |
|                                                                 | Nominal           | 24.5                                       | 24.5                | 24.5                | 24.5                      |
| UMTS Band 4 (1750 MHz)                                          |                   |                                            |                     |                     |                           |
| Device State Index                                              |                   | 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 |
| DSI = 1 (Head, Bodyworn,<br>or Phablet Max)                     | Max allowed power | 25.5                                       | 25.5                | 25.5                | 25.5                      |
|                                                                 | Nominal           | 24.5                                       | 24.5                | 24.5                | 24.5                      |
| DSI = 6 (Dual Screen 0° or 360°);<br>DSI = 7 (Dual Screen 180°) | Max allowed power | 24.5                                       | 24.5                | 24.5                | 24.5                      |
|                                                                 | Nominal           | 23.5                                       | 23.5                | 23.5                | 23.5                      |
| DSI = 5 (Hotspot); DSI = 8<br>(Phablet Reduced)                 | Max allowed power | 22.5                                       | 22.5                | 22.5                | 22.5                      |
|                                                                 | Nominal           | 21.5                                       | 21.5                | 21.5                | 21.5                      |
| UMTS Band 2 (1900 MHz)                                          |                   |                                            |                     |                     |                           |
| Device State Index                                              |                   | 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 |
| DSI = 1 (Head, Bodyworn,<br>or Phablet Max)                     | Max allowed power | 25.5                                       | 25.5                | 25.5                | 25.5                      |
|                                                                 | Nominal           | 24.5                                       | 24.5                | 24.5                | 24.5                      |
| DSI = 6 (Dual Screen 0° or 360°);<br>DSI = 7 (Dual Screen 180°) | Max allowed power | 24.5                                       | 24.5                | 24.5                | 24.5                      |
|                                                                 | Nominal           | 23.5                                       | 23.5                | 23.5                | 23.5                      |
| DSI = 5 (Hotspot); DSI = 8<br>(Phablet Reduced)                 | Max allowed power | 22.5                                       | 22.5                | 22.5                | 22.5                      |
|                                                                 | Nominal           | 21.5                                       | 21.5                | 21.5                | 21.5                      |

| CDMA BC0 (835 MHz)                                              |                   |                                            |            |            |
|-----------------------------------------------------------------|-------------------|--------------------------------------------|------------|------------|
| Device State Index                                              |                   | Modulated Average Output Power<br>(in dBm) |            |            |
|                                                                 |                   | 1x-RTT                                     | EVDO Rev 0 | EVDO Rev A |
| All DSI                                                         | Max allowed power | 25.5                                       | 25.5       | 25.5       |
|                                                                 | Nominal           | 24.5                                       | 24.5       | 24.5       |
| CDMA BC1 (1900 MHz)                                             |                   |                                            |            |            |
| Device State Index                                              |                   | Modulated Average Output Power<br>(in dBm) |            |            |
|                                                                 |                   | 1x-RTT                                     | EVDO Rev 0 | EVDO Rev A |
| DSI = 1 (Head, Bodyworn,<br>or Phablet Max)                     | Max allowed power | 25.5                                       | 25.5       | 25.5       |
|                                                                 | Nominal           | 24.5                                       | 24.5       | 24.5       |
| DSI = 6 (Dual Screen 0° or 360°);<br>DSI = 7 (Dual Screen 180°) | Max allowed power | 24.5                                       | 24.5       | 24.5       |
|                                                                 | Nominal           | 23.5                                       | 23.5       | 23.5       |
| DSI = 5 (Hotspot); DSI = 8<br>(Phablet Reduced)                 | Max allowed power | 22.5                                       | 22.5       | 22.5       |
|                                                                 | Nominal           | 21.5                                       | 21.5       | 21.5       |

|                                         |                                                                                                                                  |                               |                                                                                       |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset | Page 6 of 224                                                                         |                                 |

| Mode / Band     |                   | Modulated Average Output Power (in dBm)  |                                                              |                                              |
|-----------------|-------------------|------------------------------------------|--------------------------------------------------------------|----------------------------------------------|
|                 |                   | DSI = 1 (Head, Bodyworn, or Phablet Max) | DSI = 6 (Dual Screen 0° or 360°); DSI = 7 (Dual Screen 180°) | DSI = 5 (Hotspot); DSI = 8 (Phablet Reduced) |
| LTE FDD Band 71 | Max allowed power | 25.5                                     | 25.5                                                         | 25.5                                         |
|                 | Nominal           | 24.5                                     | 24.5                                                         | 24.5                                         |
| LTE FDD Band 12 | Max allowed power | 25.5                                     | 25.5                                                         | 25.5                                         |
|                 | Nominal           | 24.5                                     | 24.5                                                         | 24.5                                         |
| LTE FDD Band 17 | Max allowed power | 25.5                                     | 25.5                                                         | 25.5                                         |
|                 | Nominal           | 24.5                                     | 24.5                                                         | 24.5                                         |
| LTE FDD Band 13 | Max allowed power | 25.5                                     | 25.5                                                         | 25.5                                         |
|                 | Nominal           | 24.5                                     | 24.5                                                         | 24.5                                         |
| LTE FDD Band 14 | Max allowed power | 25.5                                     | 25.5                                                         | 25.5                                         |
|                 | Nominal           | 24.5                                     | 24.5                                                         | 24.5                                         |
| LTE FDD Band 5  | Max allowed power | 25.5                                     | 25.5                                                         | 25.5                                         |
|                 | Nominal           | 24.5                                     | 24.5                                                         | 24.5                                         |
| LTE FDD Band 4  | Max allowed power | 25.5                                     | 24.5                                                         | 22.5                                         |
|                 | Nominal           | 24.5                                     | 23.5                                                         | 21.5                                         |
| LTE FDD Band 66 | Max allowed power | 25.5                                     | 24.5                                                         | 22.5                                         |
|                 | Nominal           | 24.5                                     | 23.5                                                         | 21.5                                         |
| LTE FDD Band 2  | Max allowed power | 25.5                                     | 24.5                                                         | 22.5                                         |
|                 | Nominal           | 24.5                                     | 23.5                                                         | 21.5                                         |
| LTE FDD Band 25 | Max allowed power | 25.5                                     | 24.5                                                         | 22.5                                         |
|                 | Nominal           | 24.5                                     | 23.5                                                         | 21.5                                         |
| LTE FDD Band 30 | Max allowed power | 23.0                                     | 23.0                                                         | 23.0                                         |
|                 | Nominal           | 22.0                                     | 22.0                                                         | 22.0                                         |
| LTE FDD Band 7  | Max allowed power | 25.5                                     | 24.5                                                         | 23.5                                         |
|                 | Nominal           | 24.5                                     | 23.5                                                         | 22.5                                         |
| LTE TDD Band 41 | Max allowed power | 25.5                                     | 25.5                                                         | 25.0                                         |
|                 | Nominal           | 24.5                                     | 24.5                                                         | 24.0                                         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 7 of 224                   |

| Mode / Band     |                   | Modulated Average Output Power (in dBm) |                                                                                         |                                                              |
|-----------------|-------------------|-----------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------|
|                 |                   | P <sub>max</sub>                        | DSI = 1 (Head, Body-worn, or Phablet Max); DSI = 5 (Hotspot); DSI = 8 (Phablet Reduced) | DSI = 6 (Dual Screen 0° or 360°); DSI = 7 (Dual Screen 180°) |
| NR FDD Band n71 | Max allowed power | 24.8                                    | 24.8                                                                                    | 24.8                                                         |
|                 | Nominal           | 23.8                                    | 23.8                                                                                    | 23.8                                                         |
| NR FDD Band n5  | Max allowed power | 24.8                                    | 24.8                                                                                    | 24.8                                                         |
|                 | Nominal           | 23.8                                    | 23.8                                                                                    | 23.8                                                         |
| NR FDD Band n66 | Max allowed power | 25.5                                    | 24.0                                                                                    | 24.5                                                         |
|                 | Nominal           | 24.5                                    | 23.0                                                                                    | 23.5                                                         |
| NR FDD Band n2  | Max allowed power | 25.5                                    | 24.5                                                                                    | 24.5                                                         |
|                 | Nominal           | 24.5                                    | 23.5                                                                                    | 23.5                                                         |
| NR FDD Band n25 | Max allowed power | 25.5                                    | 24.5                                                                                    | 24.5                                                         |
|                 | Nominal           | 24.5                                    | 23.5                                                                                    | 23.5                                                         |
| NR TDD Band n41 | Max allowed power | 25.0                                    | 24.0                                                                                    | 25.0                                                         |
|                 | Nominal           | 24.0                                    | 23.0                                                                                    | 24.0                                                         |

The below tables are applicable in the following condition:

- Inter-band ULCA Active for combos CA\_12A-66A, CA\_2A-12A, CA\_2A-5A, CA\_5A-66A, CA\_2A-66A

| Mode / Band            |                   | Modulated Average Output Power (in dBm) |
|------------------------|-------------------|-----------------------------------------|
|                        |                   | All DSI                                 |
| LTE FDD Band 12 as PCC | Max allowed power | 23.5                                    |
|                        | Nominal           | 22.5                                    |
| LTE FDD Band 5 as PCC  | Max allowed power | 23.5                                    |
|                        | Nominal           | 22.5                                    |
| LTE FDD Band 66 as PCC | Max allowed power | 23.5                                    |
|                        | Nominal           | 22.5                                    |
| LTE FDD Band 2 as PCC  | Max allowed power | 23.5                                    |
|                        | Nominal           | 22.5                                    |
| Mode / Band            |                   | Modulated Average Output Power (in dBm) |
|                        |                   | All DSI                                 |
| LTE FDD Band 12 as SCC | Max allowed power | 17.7                                    |
|                        | Nominal           | 17.0                                    |
| LTE FDD Band 5 as SCC  | Max allowed power | 17.7                                    |
|                        | Nominal           | 17.0                                    |
| LTE FDD Band 66 as SCC | Max allowed power | 17.7                                    |
|                        | Nominal           | 17.0                                    |
| LTE FDD Band 2 as SCC  | Max allowed power | 17.7                                    |
|                        | Nominal           | 17.0                                    |

Note: For LTE Band 66/2 as SCC when 2A-66A ULCA Active, LTE Band 66/2 will transmit from Antenna 3. A diagram showing the location of the device antennas can be found in Appendix E.

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 8 of 224                   |

## 1.5.2 Maximum Bluetooth and SISO/MIMO WLAN Output Power

| Mode                    | Band     | IEEE 802.11 (in dBm) |      |              |      |              |      |              |      |                   |      |                      |      |                       |      |
|-------------------------|----------|----------------------|------|--------------|------|--------------|------|--------------|------|-------------------|------|----------------------|------|-----------------------|------|
|                         |          | SISO                 |      |              |      |              |      |              |      | MIMO              |      |                      |      |                       |      |
|                         |          | Antenna 1/ Antenna 2 |      |              |      |              |      |              |      |                   |      |                      |      |                       |      |
|                         |          | b                    |      | g            |      | n            |      | ac           |      | g<br>(CDD + STBC) |      | n<br>(CDD+STBC, SDM) |      | ac<br>(CDD+STBC, SDM) |      |
| Maximum / Nominal Power |          | Max                  | Nom. | Max          | Nom. | Max          | Nom. | Max          | Nom. | Max               | Nom. | Max                  | Nom. | Max                   | Nom. |
| 2.4 GHz WIFI            | 2.45 GHz | 20.5                 | 19.5 | 19.5         | 18.5 | 18.5         | 17.5 | 18.5         | 17.5 | 22.5              | 21.5 | 21.5                 | 20.5 | 21.5                  | 20.5 |
|                         |          |                      |      | ch. 1: 17.0  | 16.0 | ch. 1: 16.0  | 15.0 | ch. 1: 16.0  | 15.0 | ch. 1: 20.0       | 19.0 | ch. 1: 19.0          | 18.0 | ch. 1: 19.0           | 18.0 |
|                         |          |                      |      | ch. 2: 17.0  | 16.0 | ch. 2: 16.0  | 15.0 | ch. 2: 16.0  | 15.0 | ch. 2: 20.0       | 19.0 | ch. 2: 19.0          | 18.0 | ch. 2: 19.0           | 18.0 |
|                         |          |                      |      | ch. 10: 17.0 | 16.0 | ch. 10: 16.0 | 15.0 | ch. 10: 16.0 | 15.0 | ch. 10: 20.0      | 19.0 | ch. 10: 19.0         | 18.0 | ch. 10: 19.0          | 18.0 |
|                         |          |                      |      | ch. 11: 17.0 | 16.0 | ch. 11: 16.0 | 15.0 | ch. 11: 16.0 | 15.0 | ch. 11: 20.0      | 19.0 | ch. 11: 19.0         | 18.0 | ch. 11: 19.0          | 18.0 |

| Mode                     | Band     | IEEE 802.11 (in dBm)                   |                      |                                        |                      |                                        |                      |                                        |                      |                                        |                      |                                        |                      |
|--------------------------|----------|----------------------------------------|----------------------|----------------------------------------|----------------------|----------------------------------------|----------------------|----------------------------------------|----------------------|----------------------------------------|----------------------|----------------------------------------|----------------------|
|                          |          | SISO                                   |                      |                                        |                      |                                        |                      | MIMO                                   |                      |                                        |                      |                                        |                      |
|                          |          | Antenna 1/ Antenna 2                   |                      |                                        |                      |                                        |                      |                                        |                      |                                        |                      |                                        |                      |
|                          |          | a                                      |                      | n                                      |                      | ac                                     |                      | a<br>(CDD + STBC)                      |                      | n<br>(CDD+STBC, SDM)                   |                      | ac<br>(CDD+STBC, SDM)                  |                      |
| Maximum / Nominal Power  |          | Max                                    | Nom.                 | Max                                    | Nom.                 | Max                                    | Nom.                 | Max                                    | Nom.                 | Max                                    | Nom.                 | Max                                    | Nom.                 |
| 5 GHz WIFI<br>(20MHz BW) | 5200 MHz | 17.0<br>ch. 40: 19.0                   | 16.0<br>18.0         | 17.0<br>ch. 40: 19.0                   | 16.0<br>18.0         | 17.0<br>ch. 40: 19.0                   | 16.0<br>18.0         | 20.0<br>ch. 40: 22.0                   | 19.0<br>21.0         | 20.0<br>ch. 40: 22.0                   | 19.0<br>21.0         | 20.0<br>ch. 40: 22.0                   | 19.0<br>21.0         |
|                          | 5300 MHz | 17.0<br>ch. 56: 19.0                   | 16.0<br>18.0         | 17.0<br>ch. 56: 19.0                   | 16.0<br>18.0         | 17.0<br>ch. 56: 19.0                   | 16.0<br>18.0         | 20.0<br>ch. 56: 22.0                   | 19.0<br>21.0         | 20.0<br>ch. 56: 22.0                   | 19.0<br>21.0         | 20.0<br>ch. 56: 22.0                   | 19.0<br>21.0         |
|                          | 5500 MHz | 17.0                                   | 16.0                 | 17.0                                   | 16.0                 | 17.0                                   | 16.0                 | 20.0                                   | 19.0                 | 20.0                                   | 19.0                 | 20.0                                   | 19.0                 |
|                          | 5800 MHz | 19.0<br>ch. 149: 17.0<br>ch. 153: 17.0 | 18.0<br>16.0<br>16.0 | 19.0<br>ch. 149: 17.0<br>ch. 153: 17.0 | 18.0<br>16.0<br>16.0 | 19.0<br>ch. 149: 17.0<br>ch. 153: 17.0 | 18.0<br>16.0<br>16.0 | 22.0<br>ch. 149: 20.0<br>ch. 153: 20.0 | 21.0<br>19.0<br>19.0 | 22.0<br>ch. 149: 20.0<br>ch. 153: 20.0 | 21.0<br>19.0<br>19.0 | 22.0<br>ch. 149: 20.0<br>ch. 153: 20.0 | 21.0<br>19.0<br>19.0 |
| 5 GHz WIFI<br>(40MHz BW) | 5200 MHz |                                        |                      | 16.0                                   | 15.0                 | 16.0                                   | 15.0                 |                                        |                      | 19.0                                   | 18.0                 | 19.0                                   | 18.0                 |
|                          | 5300 MHz |                                        |                      | 16.0<br>ch. 62: 15.0                   | 15.0<br>14.0         | 16.0<br>ch. 62: 15.0                   | 15.0<br>14.0         |                                        |                      | 19.0<br>ch. 62: 18.0                   | 18.0<br>17.0         | 19.0<br>ch. 62: 18.0                   | 18.0<br>17.0         |
|                          | 5500 MHz |                                        |                      | 16.0<br>ch. 102: 14.5                  | 15.0<br>13.5         | 16.0<br>ch. 102: 14.5                  | 15.0<br>13.5         |                                        |                      | 19.0<br>ch. 102: 17.5                  | 18.0<br>16.5         | 19.0<br>ch. 102: 17.5                  | 18.0<br>16.5         |
|                          | 5800 MHz |                                        |                      | 16.0                                   | 15.0                 | 16.0                                   | 15.0                 |                                        |                      | 19.0                                   | 18.0                 | 19.0                                   | 18.0                 |
| 5 GHz WIFI<br>(80MHz BW) | 5200 MHz |                                        |                      |                                        |                      | 14.0                                   | 13.0                 |                                        |                      |                                        |                      | 17.0                                   | 16.0                 |
|                          | 5300 MHz |                                        |                      |                                        |                      | 14.0                                   | 13.0                 |                                        |                      |                                        |                      | 17.0                                   | 16.0                 |
|                          | 5500 MHz |                                        |                      |                                        |                      | 14.0                                   | 13.0                 |                                        |                      |                                        |                      | 17.0                                   | 16.0                 |
|                          | 5800 MHz |                                        |                      |                                        |                      | 14.0                                   | 13.0                 |                                        |                      |                                        |                      | 17.0                                   | 16.0                 |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 9 of 224                   |

| Mode / Band  |         | Modulated Average (dBm) |
|--------------|---------|-------------------------|
| Bluetooth    | Maximum | 11.0                    |
|              | Nominal | 10.0                    |
| Bluetooth LE | Maximum | 5.0                     |
|              | Nominal | 4.0                     |

### 1.5.3 Reduced SISO/MIMO WLAN Output Power

The below tables are applicable in the following conditions:

- Head Conditions
- Head Conditions during simultaneous conditions with 2.4 GHz WLAN and 5 GHz WLAN

| Mode                       | Band        | IEEE 802.11 (in dBm) |      |      |      |              |      |              |      |                   |      |                      |      |                       |      |
|----------------------------|-------------|----------------------|------|------|------|--------------|------|--------------|------|-------------------|------|----------------------|------|-----------------------|------|
|                            |             | SISO                 |      |      |      |              |      |              |      | MIMO              |      |                      |      |                       |      |
|                            |             | Antenna 1/ Antenna 2 |      |      |      |              |      |              |      |                   |      |                      |      |                       |      |
|                            |             | b                    |      | g    |      | n            |      | ac           |      | g<br>(CDD + STBC) |      | n<br>(CDD+STBC, SDM) |      | ac<br>(CDD+STBC, SDM) |      |
| Maximum /<br>Nominal Power |             | Max                  | Nom. | Max  | Nom. | Max          | Nom. | Max          | Nom. | Max               | Nom. | Max                  | Nom. | Max                   | Nom. |
| 2.4<br>GHz<br>WIFI         | 2.45<br>GHz | 16.5                 | 15.5 | 16.5 | 15.5 | 16.5         | 15.5 | 16.5         | 15.5 | 19.5              | 18.5 | 19.5                 | 18.5 | 19.5                  | 18.5 |
|                            |             |                      |      |      |      | ch. 1: 16.0  | 15.0 | ch. 1: 16.0  | 15.0 |                   |      | ch. 1: 19.0          | 18.0 | ch. 1: 19.0           | 18.0 |
|                            |             |                      |      |      |      | ch. 2: 16.0  | 15.0 | ch. 2: 16.0  | 15.0 |                   |      | ch. 2: 19.0          | 18.0 | ch. 2: 19.0           | 18.0 |
|                            |             |                      |      |      |      | ch. 10: 16.0 | 15.0 | ch. 10: 16.0 | 15.0 |                   |      | ch. 10: 19.0         | 18.0 | ch. 10: 19.0          | 18.0 |
|                            |             |                      |      |      |      | ch. 11: 16.0 | 15.0 | ch. 11: 16.0 | 15.0 |                   |      | ch. 11: 19.0         | 18.0 | ch. 11: 19.0          | 18.0 |

|                                         |                                                                                                                                  |                               |                                                                                       |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| Mode                    | Band     | IEEE 802.11 (in dBm) |      |               |      |               |      |                   |      |                      |      |                       |      |
|-------------------------|----------|----------------------|------|---------------|------|---------------|------|-------------------|------|----------------------|------|-----------------------|------|
|                         |          | SISO                 |      |               |      |               |      | MIMO              |      |                      |      |                       |      |
|                         |          | Antenna 1/ Antenna 2 |      |               |      |               |      |                   |      |                      |      |                       |      |
|                         |          | a                    |      | n             |      | ac            |      | a<br>(CDD + STBC) |      | n<br>(CDD+STBC, SDM) |      | ac<br>(CDD+STBC, SDM) |      |
| Maximum / Nominal Power |          | Max                  | Nom. | Max           | Nom. | Max           | Nom. | Max               | Nom. | Max                  | Nom. | Max                   | Nom. |
| 5 GHz WIFI (20MHz BW)   | 5200 MHz | 16.0                 | 15.0 | 16.0          | 15.0 | 16.0          | 15.0 | 19.0              | 18.0 | 19.0                 | 18.0 | 19.0                  | 18.0 |
|                         | 5300 MHz | 16.0                 | 15.0 | 16.0          | 15.0 | 16.0          | 15.0 | 19.0              | 18.0 | 19.0                 | 18.0 | 19.0                  | 18.0 |
|                         | 5500 MHz | 16.0                 | 15.0 | 16.0          | 15.0 | 16.0          | 15.0 | 19.0              | 18.0 | 19.0                 | 18.0 | 19.0                  | 18.0 |
|                         | 5800 MHz | 16.0                 | 15.0 | 16.0          | 15.0 | 16.0          | 15.0 | 19.0              | 18.0 | 19.0                 | 18.0 | 19.0                  | 18.0 |
| 5 GHz WIFI (40MHz BW)   | 5200 MHz |                      |      | 16.0          | 15.0 | 16.0          | 15.0 |                   |      | 19.0                 | 18.0 | 19.0                  | 18.0 |
|                         | 5300 MHz |                      |      | 16.0          | 15.0 | 16.0          | 15.0 |                   |      | 19.0                 | 18.0 | 19.0                  | 18.0 |
|                         |          |                      |      | ch. 62: 15.0  | 14.0 | ch. 62: 15.0  | 14.0 |                   |      | ch. 62: 18.0         | 17.0 | ch. 62: 18.0          | 17.0 |
|                         | 5500 MHz |                      |      | 16.0          | 15.0 | 16.0          | 15.0 |                   |      | 19.0                 | 18.0 | 19.0                  | 18.0 |
|                         |          |                      |      | ch. 102: 14.5 | 13.5 | ch. 102: 14.5 | 13.5 |                   |      | ch. 102: 17.5        | 16.5 | ch. 102: 17.5         | 16.5 |
|                         | 5800 MHz |                      |      | 16.0          | 15.0 | 16.0          | 15.0 |                   |      | 19.0                 | 18.0 | 19.0                  | 18.0 |
| 5 GHz WIFI (80MHz BW)   | 5200 MHz |                      |      |               |      | 14.0          | 13.0 |                   |      |                      |      | 17.0                  | 16.0 |
|                         | 5300 MHz |                      |      |               |      | 14.0          | 13.0 |                   |      |                      |      | 17.0                  | 16.0 |
|                         | 5500 MHz |                      |      |               |      | 14.0          | 13.0 |                   |      |                      |      | 17.0                  | 16.0 |
|                         | 5800 MHz |                      |      |               |      | 14.0          | 13.0 |                   |      |                      |      | 17.0                  | 16.0 |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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## 1.6 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 |
|-------------------------|------|-------|-----|--------|-------|------|
| GPRS 850                | Yes  | Yes   | No  | Yes    | Yes   | No   |
| GPRS 1900               | Yes  | Yes   | No  | Yes    | No    | Yes  |
| UMTS 850                | Yes  | Yes   | No  | Yes    | Yes   | No   |
| UMTS 1750               | Yes  | Yes   | No  | Yes    | No    | Yes  |
| UMTS 1900               | Yes  | Yes   | No  | Yes    | No    | Yes  |
| Cell. EVDO              | Yes  | Yes   | No  | Yes    | Yes   | No   |
| PCS EVDO                | Yes  | Yes   | No  | Yes    | No    | Yes  |
| LTE Band 71             | Yes  | Yes   | No  | Yes    | Yes   | No   |
| LTE Band 12             | Yes  | Yes   | No  | Yes    | Yes   | No   |
| LTE Band 13             | Yes  | Yes   | No  | Yes    | Yes   | No   |
| LTE Band 14             | Yes  | Yes   | No  | Yes    | Yes   | No   |
| LTE Band 5 (Cell)       | Yes  | Yes   | No  | Yes    | Yes   | No   |
| LTE Band 66 (AWS) Ant 2 | Yes  | Yes   | No  | Yes    | No    | Yes  |
| LTE Band 66 (AWS) Ant 3 | Yes  | Yes   | No  | No     | Yes   | No   |
| LTE Band 2 (PCS) Ant 2  | Yes  | Yes   | No  | Yes    | No    | Yes  |
| LTE Band 2 (PCS) Ant 3  | Yes  | Yes   | No  | No     | Yes   | No   |
| LTE Band 25 (PCS)       | Yes  | Yes   | No  | Yes    | No    | Yes  |
| LTE Band 30             | Yes  | Yes   | No  | Yes    | No    | Yes  |
| LTE Band 7              | Yes  | Yes   | No  | Yes    | No    | Yes  |
| LTE Band 41             | Yes  | Yes   | No  | Yes    | No    | Yes  |
| NR Band n71             | Yes  | Yes   | No  | Yes    | Yes   | No   |
| NR Band n5              | Yes  | Yes   | No  | Yes    | Yes   | No   |
| NR Band n66             | Yes  | Yes   | No  | No     | Yes   | No   |
| NR Band n25             | Yes  | Yes   | No  | No     | Yes   | No   |
| NR Band n41             | Yes  | Yes   | No  | No     | Yes   | No   |
| 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  |
| 5 GHz WLAN MIMO         | 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-2A, U-NII-2C operations are disabled.

## 1.7 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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## 1.8 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^ | Yes                 | N/A             | Yes     | ^ Bluetooth Tethering is considered                                                     |
| 4   | 1x CDMA voice + 2.4 GHz Wi-Fi MIMO                           | Yes  | Yes                 | N/A             | Yes     |                                                                                         |
| 5   | 1x CDMA voice + 5 GHz Wi-Fi MIMO                             | Yes  | Yes                 | N/A             | Yes     |                                                                                         |
| 6   | 1x CDMA voice + 2.4 GHz Wi-Fi Antenna 2 + 2.4 GHz Bluetooth  | Yes^ | Yes                 | N/A             | Yes     | ^ Bluetooth Tethering is considered                                                     |
| 7   | 1x CDMA voice + 2.4 GHz Bluetooth + 5 GHz Wi-Fi              | Yes^ | Yes                 | N/A             | Yes     | ^ Bluetooth Tethering is considered                                                     |
| 8   | 1x CDMA voice + 2.4 GHz Wi-Fi MIMO                           | Yes^ | Yes                 | N/A             | Yes     | ^ Bluetooth Tethering is considered                                                     |
| 9   | 1x CDMA voice + 2.4 GHz Wi-Fi Ant 1 + 5 GHz Wi-Fi Ant 2      | Yes  | Yes                 | N/A             | Yes     |                                                                                         |
| 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^ | Yes                 | N/A             | Yes     | ^ Bluetooth Tethering is considered                                                     |
| 13  | GSM voice + 2.4 GHz Wi-Fi MIMO                               | Yes  | Yes                 | N/A             | Yes     |                                                                                         |
| 14  | GSM voice + 5 GHz Wi-Fi MIMO                                 | Yes  | Yes                 | N/A             | Yes     |                                                                                         |
| 15  | GSM voice + 2.4 GHz Wi-Fi Antenna 2 + 2.4 GHz Bluetooth      | Yes^ | Yes                 | N/A             | Yes     | ^ Bluetooth Tethering is considered                                                     |
| 16  | GSM voice + 2.4 GHz Bluetooth + 5 GHz Wi-Fi                  | Yes^ | Yes                 | N/A             | Yes     | ^ Bluetooth Tethering is considered                                                     |
| 17  | GSM voice + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO             | Yes^ | Yes                 | N/A             | Yes     | ^ Bluetooth Tethering is considered                                                     |
| 18  | GSM voice + 2.4 GHz Wi-Fi Ant 1 + 5 GHz Wi-Fi Ant 2          | Yes  | Yes                 | N/A             | Yes     |                                                                                         |
| 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^ | Yes                 | Yes^            | Yes     | ^ Bluetooth Tethering is considered                                                     |
| 22  | UMTS + 2.4 GHz Wi-Fi MIMO                                    | Yes  | Yes                 | Yes             | Yes     |                                                                                         |
| 23  | UMTS + 5 GHz Wi-Fi MIMO                                      | Yes  | Yes                 | Yes             | Yes     |                                                                                         |
| 24  | UMTS + 2.4 GHz Wi-Fi Antenna 2 + 2.4 GHz Bluetooth           | Yes^ | Yes                 | Yes^            | Yes     | ^ Bluetooth Tethering is considered                                                     |
| 25  | UMTS + 2.4 GHz Bluetooth + 5 GHz Wi-Fi                       | Yes^ | Yes                 | Yes^            | Yes     | ^ Bluetooth Tethering is considered                                                     |
| 26  | UMTS + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO                  | Yes^ | Yes                 | Yes^            | Yes     | ^ Bluetooth Tethering is considered                                                     |
| 27  | UMTS + 2.4 GHz Wi-Fi Ant 1 + 5 GHz Wi-Fi Ant 2               | Yes  | Yes                 | Yes             | Yes     |                                                                                         |
| 28  | LTE + 2.4 GHz Wi-Fi                                          | Yes  | Yes                 | Yes             | Yes     |                                                                                         |
| 29  | LTE + 5 GHz Wi-Fi                                            | Yes  | Yes                 | Yes             | Yes     |                                                                                         |
| 30  | LTE + 2.4 GHz Bluetooth                                      | Yes^ | Yes                 | Yes^            | Yes     | ^ Bluetooth Tethering is considered                                                     |
| 31  | LTE + 2.4 GHz Wi-Fi MIMO                                     | Yes  | Yes                 | Yes             | Yes     |                                                                                         |
| 32  | LTE + 5 GHz Wi-Fi MIMO                                       | Yes  | Yes                 | Yes             | Yes     |                                                                                         |
| 33  | LTE + 2.4 GHz Wi-Fi Antenna 2 + 2.4 GHz Bluetooth            | Yes^ | Yes                 | Yes^            | Yes     | ^ Bluetooth Tethering is considered                                                     |
| 34  | LTE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi                        | Yes^ | Yes                 | Yes^            | Yes     | ^ Bluetooth Tethering is considered                                                     |
| 35  | LTE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO                   | Yes^ | Yes                 | Yes^            | Yes     | ^ Bluetooth Tethering is considered                                                     |
| 36  | LTE + 2.4 GHz Wi-Fi Ant 1 + 5 GHz Wi-Fi Ant 2                | Yes  | Yes                 | Yes             | Yes     |                                                                                         |
| 37  | LTE + 5G NR                                                  | Yes  | Yes                 | N/A             | Yes     |                                                                                         |
| 38  | LTE + 2.4 GHz Wi-Fi + 5G NR                                  | Yes  | Yes                 | Yes             | Yes     |                                                                                         |
| 39  | LTE + 5 GHz Wi-Fi + 5G NR                                    | Yes  | Yes                 | Yes             | Yes     |                                                                                         |
| 40  | LTE + 2.4 GHz Bluetooth + 5G NR                              | Yes^ | Yes                 | Yes^            | Yes     | ^ Bluetooth Tethering is considered                                                     |
| 41  | LTE + 2.4 GHz Wi-Fi MIMO + 5G NR                             | Yes  | Yes                 | Yes             | Yes     |                                                                                         |
| 42  | LTE + 5 GHz Wi-Fi MIMO + 5G NR                               | Yes  | Yes                 | Yes             | Yes     |                                                                                         |
| 43  | LTE + 2.4 GHz Wi-Fi Antenna 2 + 2.4 GHz Bluetooth + 5G NR    | Yes^ | Yes                 | Yes^            | Yes     | ^ Bluetooth Tethering is considered                                                     |
| 44  | LTE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi + 5G NR                | Yes^ | Yes                 | Yes^            | Yes     | ^ Bluetooth Tethering is considered                                                     |
| 45  | LTE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO + 5G NR           | Yes^ | Yes                 | Yes^            | Yes     | ^ Bluetooth Tethering is considered                                                     |
| 46  | LTE + 2.4 GHz Wi-Fi Ant 1 + 5 GHz Wi-Fi Ant 2 + 5G NR        | Yes  | Yes                 | Yes             | Yes     |                                                                                         |
| 47  | CDMA/EVDO data + 2.4 GHz Wi-Fi                               | Yes* | Yes*                | Yes             | Yes     | * Pre-installed VOIP applications are considered                                        |
| 48  | CDMA/EVDO data + 5 GHz Wi-Fi                                 | Yes* | Yes*                | Yes             | Yes     | * Pre-installed VOIP applications are considered                                        |
| 49  | CDMA/EVDO data + 2.4 GHz Bluetooth                           | Yes^ | Yes*                | Yes^            | Yes     | * Pre-installed VOIP applications are considered<br>^ Bluetooth Tethering is considered |
| 50  | CDMA/EVDO data + 2.4 GHz Wi-Fi MIMO                          | Yes* | Yes*                | Yes             | Yes     | * Pre-installed VOIP applications are considered                                        |
| 51  | CDMA/EVDO data + 5 GHz Wi-Fi MIMO                            | Yes* | Yes*                | Yes             | Yes     | * Pre-installed VOIP applications are considered                                        |
| 52  | CDMA/EVDO data + 2.4 GHz Wi-Fi Antenna 2 + 2.4 GHz Bluetooth | Yes^ | Yes*                | Yes^            | Yes     | * Pre-installed VOIP applications are considered<br>^ Bluetooth Tethering is considered |
| 53  | CDMA/EVDO data + 2.4 GHz Bluetooth + 5 GHz Wi-Fi             | Yes^ | Yes*                | Yes^            | Yes     | * Pre-installed VOIP applications are considered<br>^ Bluetooth Tethering is considered |
| 54  | CDMA/EVDO data + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO        | Yes^ | Yes*                | Yes^            | Yes     | * Pre-installed VOIP applications are considered<br>^ Bluetooth Tethering is considered |
| 55  | CDMA/EVDO data + 2.4 GHz Wi-Fi Ant 1 + 5 GHz Wi-Fi Ant 2     | Yes* | Yes*                | Yes             | Yes     | * Pre-installed VOIP applications are considered                                        |
| 56  | GPRS/EDGE + 2.4 GHz Wi-Fi                                    | Yes* | Yes*                | Yes             | Yes     | * Pre-installed VOIP applications are considered                                        |
| 57  | GPRS/EDGE + 5 GHz Wi-Fi                                      | Yes* | Yes*                | Yes             | Yes     | * Pre-installed VOIP applications are considered                                        |
| 58  | GPRS/EDGE + 2.4 GHz Bluetooth                                | Yes^ | Yes*                | Yes^            | Yes     | * Pre-installed VOIP applications are considered<br>^ Bluetooth Tethering is considered |
| 59  | GPRS/EDGE + 2.4 GHz Wi-Fi MIMO                               | Yes* | Yes*                | Yes             | Yes     | * Pre-installed VOIP applications are considered                                        |
| 60  | GPRS/EDGE + 5 GHz Wi-Fi MIMO                                 | Yes* | Yes*                | Yes             | Yes     | * Pre-installed VOIP applications are considered                                        |
| 61  | GPRS/EDGE + 2.4 GHz Wi-Fi Antenna 2 + 2.4 GHz Bluetooth      | Yes^ | Yes*                | Yes^            | Yes     | * Pre-installed VOIP applications are considered<br>^ Bluetooth Tethering is considered |
| 62  | GPRS/EDGE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi                  | Yes^ | Yes*                | Yes^            | Yes     | * Pre-installed VOIP applications are considered<br>^ Bluetooth Tethering is considered |
| 63  | GPRS/EDGE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO             | Yes^ | Yes*                | Yes^            | Yes     | * Pre-installed VOIP applications are considered<br>^ Bluetooth Tethering is considered |
| 64  | GPRS/EDGE + 2.4 GHz Wi-Fi Ant 1 + 5 GHz Wi-Fi Ant 2          | Yes* | Yes*                | Yes             | Yes     | * Pre-installed VOIP applications are considered                                        |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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1. 2.4 GHz WLAN antenna 1 and 2.4 GHz Bluetooth share the same antenna path and cannot transmit simultaneously.
2. 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.
3. Per the manufacturer, WIFI Direct is 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.
4. 5 GHz Wireless Router is only supported for the U-NII-1 and U-NII-3 by S/W, therefore U-NII-2A, and U-NII-2C were not evaluated for wireless router conditions.
5. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac. 802.11a/g/n/ac supports CDD and STBC and 802.11n/ac additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
6. This device supports VOLTE.
7. This device supports VOWIFI.
8. This device supports Bluetooth Tethering.
9. LTE + 5G NR FR1 Scenarios are limited to LTE Anchor Bands, B2/B5/B7/B12/B13/B30/B66/B71.
10. LTE operations in the table above include intra-band and inter-band ULCA operations with 2 carriers transmitting in the uplink.

## 1.9 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, head and body-worn 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-2A and U-NII-2C WIFI, only 2.4 GHz, U-NII-1, 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.

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-2A & U-NII-2C WLAN, phablet SAR tests were performed. Phablet SAR was not evaluated for 2.4 GHz WLAN, Bluetooth, U-NII-1, and U-NII-3 WLAN operations since wireless router 1g SAR was < 1.2 W/kg.

This device supports IEEE 802.11ac with the following features:

- a) Up to 80 MHz Bandwidth only for 5GHz
- 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
- g) MU-MIMO UL Operations are not supported

|                                         |                                                                                                                                  |                               |                                                                                                 |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
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## (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 of the original certification report number 1M2003200048-01-R2.ZNF.

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. Additional SAR tests for phablet SAR were evaluated per KDB 616217 Section 6 (See Section 6.9 for more information).

This device supports LTE and NR capabilities with overlapping transmission frequency ranges. When the supported frequency range of an LTE/NR Band falls completely within an LTE/NR band with a larger transmission frequency range, both LTE/NR bands have the same target power (or the band with the larger transmission frequency range has a higher target power), and both LTE/NR 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 intra-band LTE Carrier Aggregation (CA) for LTE Band 5 with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per 2017 Fall TCB Workshop Notes.

This device supports uplink inter-band LTE Carrier Aggregation (CA) for LTE Bands 12, 5, 2, 66 with two component carriers in the uplink. For 2A-66A uplink conditions, the SCC operates using Antenna 3. SAR tests were performed separately for antenna 3 for LTE Band 2 and LTE B66.

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.

NR implementation of n71, n5, n66, n2, n25 and n41 is limited to EN-DC operations only, with LTE B2/B5/B7/B12/B13/B30/B66/B71 acting as the anchor bands. Per FCC Guidance, SAR tests were performed separately for NR Bands and LTE Anchor Bands. Please see Section 11 for more details.

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

## 1.10 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)
- April 2018 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (Dynamic Antenna Tuning)

## 1.11 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.

## 1.12 Bibliography

| Report Type                           | Report Serial Number |
|---------------------------------------|----------------------|
| RF Exposure Part 0 Test Report        | Rev. I               |
| RF Exposure Part 2 Test Report        | . FA52603-01         |
| RF Exposure Compliance Summary Report | 1M2004150063-15.ZNF  |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| 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 17 (706.5 - 713.5 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                 |                |              |
|                                                                                                                   | LTE Band 13 (779.5 - 784.5 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                 |                |              |
|                                                                                                                   | LTE Band 14 (790.5 - 795.5 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                 |                |              |
|                                                                                                                   | LTE Band 5 (Cell) (824.7 - 848.3 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                     |                |                 |                |              |
|                                                                                                                   | LTE Band 66 (AWS) (1710.7 - 1779.3 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                 |                |              |
|                                                                                                                   | LTE Band 4 (AWS) (1710.7 - 1754.3 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                 |                |              |
|                                                                                                                   | LTE Band 2 (PCS) (1850.7 - 1909.3 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                 |                |              |
|                                                                                                                   | LTE Band 25 (PCS) (1850.7 - 1914.3 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                 |                |              |
|                                                                                                                   | LTE Band 30 (2307.5 - 2312.5 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                         |                |                 |                |              |
|                                                                                                                   | LTE Band 7 (2502.5 - 2567.5 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                          |                |                 |                |              |
|                                                                                                                   | LTE Band 41 (2498.5 - 2687.5 MHz)                                                                                                                                                                                                                                                                                                                                                                                                                         |                |                 |                |              |
|                                                                                                                   | LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                                                                                                                                                                                                                                                                                                                                                                |                |                 |                |              |
|                                                                                                                   | LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz                                                                                                                                                                                                                                                                                                                                                                                                                |                |                 |                |              |
| Channel Bandwidths                                                                                                | LTE Band 17: 5 MHz, 10 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                 |                |              |
|                                                                                                                   | LTE Band 13: 5 MHz, 10 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                 |                |              |
|                                                                                                                   | LTE Band 14: 5 MHz, 10 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 2 (PCS): 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 30: 5 MHz, 10 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                 |                |              |
|                                                                                                                   | LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                 |                |              |
|                                                                                                                   | LTE Band 41: 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)                                                                                                                                                                                                                                                                                                                                                                                                                                              | 690.5 (133297) | 693 (133422)    |                |              |
| LTE Band 71: 15 MHz                                                                                               | 670.5 (133197)                                                                                                                                                                                                                                                                                                                                                                                                                                            | 690.5 (133297) | 690.5 (133397)  |                |              |
| LTE Band 71: 20 MHz                                                                                               | 673 (133222)                                                                                                                                                                                                                                                                                                                                                                                                                                              | 690.5 (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 17: 5 MHz                                                                                                | 706.5 (23755)                                                                                                                                                                                                                                                                                                                                                                                                                                             | 710 (23780)    | 713.5 (23825)   |                |              |
| LTE Band 17: 10 MHz                                                                                               | 709 (23780)                                                                                                                                                                                                                                                                                                                                                                                                                                               | 710 (23780)    | 711 (23800)     |                |              |
| 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 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                                                                                         | 1717.5 (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 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 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 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 41: 5 MHz                                                                                                | 2506 (39750)                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2549.5 (40185) | 2593 (40620)    | 2636.5 (41055) | 2680 (41490) |
| LTE Band 41: 10 MHz                                                                                               | 2506 (39750)                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2549.5 (40185) | 2593 (40620)    | 2636.5 (41055) | 2680 (41490) |
| LTE Band 41: 15 MHz                                                                                               | 2506 (39750)                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2549.5 (40185) | 2593 (40620)    | 2636.5 (41055) | 2680 (41490) |
| LTE Band 41: 20 MHz                                                                                               | 2506 (39750)                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2549.5 (40185) | 2593 (40620)    | 2636.5 (41055) | 2680 (41490) |
| UE Category                                                                                                       | DL UE Cat 18, UL UE Cat 13                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                 |                |              |
| Modulations Supported in UL                                                                                       | QPSK, 16QAM, 64QAM                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                 |                |              |
| LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.5? (manufacturer attestation to be provided) | 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 15. It supports carrier aggregation, downlink MIMO, LAA features as shown in Section 9. All other uplink communications are identical to the Release 8 specifications. Uplink communications are done on the PCC unless otherwise specified. The following LTE Release 15 Features are not supported: Relay, HetNet, Enhanced eCIC, MDH, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA. |                |                 |                |              |

|                                         |                                                                                                                                  |                               |                |                                                                                       |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |                |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset | Page 17 of 224 |                                                                                       |                                 |

| NR Information                                   |                                                                                             |                  |                  |                  |                  |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|
| Form Factor                                      | Portable Handset                                                                            |                  |                  |                  |                  |
| Frequency Range of each LTE transmission band    | NR Band n71 (665.5 - 695.5 MHz)                                                             |                  |                  |                  |                  |
|                                                  | NR Band n5 (Cell) (826.5 - 846.5 MHz)                                                       |                  |                  |                  |                  |
|                                                  | NR Band n66 (AWS) (1712.5 - 1777.5 MHz)                                                     |                  |                  |                  |                  |
|                                                  | NR Band n2 (PCS) (1852.5 - 1907.5 MHz)                                                      |                  |                  |                  |                  |
|                                                  | NR Band n25 (PCS) (1852.5 - 1912.5 MHz)                                                     |                  |                  |                  |                  |
|                                                  | NR Band n41 (2506.02 - 2679.99 MHz)                                                         |                  |                  |                  |                  |
| Channel Bandwidths                               | NR Band n71: 5 MHz, 10 MHz, 15 MHz, 20 MHz                                                  |                  |                  |                  |                  |
|                                                  | NR Band n5 (Cell): 5 MHz, 10 MHz, 15 MHz, 20 MHz                                            |                  |                  |                  |                  |
|                                                  | NR Band n66 (AWS): 5 MHz, 10 MHz, 15 MHz, 20 MHz                                            |                  |                  |                  |                  |
|                                                  | NR Band n2 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz                                             |                  |                  |                  |                  |
|                                                  | NR Band n25 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz                                            |                  |                  |                  |                  |
|                                                  | NR Band n41: 20 MHz, 40 MHz, 50MHz, 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 (133100)                                                                              |                  | 680.5 (136100)   | 695.5 (139100)   |                  |
| 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 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 n2 (PCS): 5 MHz                          | 1852.5 (370500)                                                                             |                  | 1880 (376000)    | 1907.5 (381500)  |                  |
| NR Band n2 (PCS): 10 MHz                         | 1855 (371000)                                                                               |                  | 1880 (376000)    | 1905 (381000)    |                  |
| NR Band n2 (PCS): 15 MHz                         | 1857.5 (371500)                                                                             |                  | 1880 (376000)    | 1902.5 (380500)  |                  |
| NR Band n2 (PCS): 20 MHz                         | 1860 (372000)                                                                               |                  | 1880 (376000)    | 1900 (380000)    |                  |
| 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 n41: 20 MHz                              | 2506.02 (501204)                                                                            | 2549.49 (509898) | 2592.99 (518598) | 2636.49 (527298) | 2679.99 (535998) |
| NR Band n41: 40 MHz                              | 2516.01 (503202)                                                                            | 2567.34 (513468) | N/A              | 2618.67 (523734) | 2670 (534000)    |
| NR Band n41: 50 MHz                              | 2521.02 (504204)                                                                            |                  | 2592.99 (518598) | 2664.99 (532998) |                  |
| 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)    |                  |
| NR Band n71/n5/n66/n2/n25 SCS                    | 15 kHz                                                                                      |                  |                  |                  |                  |
| NR Band n41 SCS                                  | 30 kHz                                                                                      |                  |                  |                  |                  |
| Modulations supported in UL                      | DFT-s-OFDM: $\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM<br>CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM |                  |                  |                  |                  |
| 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 2/7/66                                                                             |                  |                  |                  |                  |
| LTE Anchor Bands for NR Band n5                  | LTE Band 2/30/66                                                                            |                  |                  |                  |                  |
| LTE Anchor Bands for NR Band n66                 | LTE Band 2/5/7/12/13/30/71                                                                  |                  |                  |                  |                  |
| LTE Anchor Bands for NR Band n2                  | LTE Band 5/12/13/30/66                                                                      |                  |                  |                  |                  |
| LTE Anchor Bands for NR Band n25                 | LTE Band 66                                                                                 |                  |                  |                  |                  |
| LTE Anchor Bands for NR Band n41                 | LTE Band 2/66                                                                               |                  |                  |                  |                  |

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                  | DUT Type:<br>Portable Handset | Page 18 of 224                                                                        |                                 |

### 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]

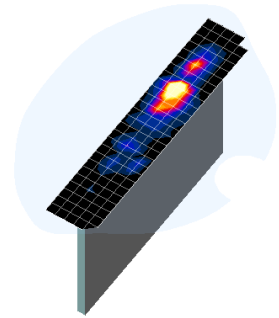
|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 19 of 224                  |

## 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\*

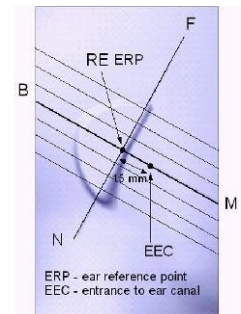
| Frequency | Maximum Area Scan Resolution (mm)<br>( $\Delta x_{\text{area}}, \Delta y_{\text{area}}$ ) | Maximum Zoom Scan Resolution (mm)<br>( $\Delta x_{\text{zoomTV}}, \Delta y_{\text{zoom}}$ ) | Maximum Zoom Scan Spatial Resolution (mm) |                             |                                      | 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].



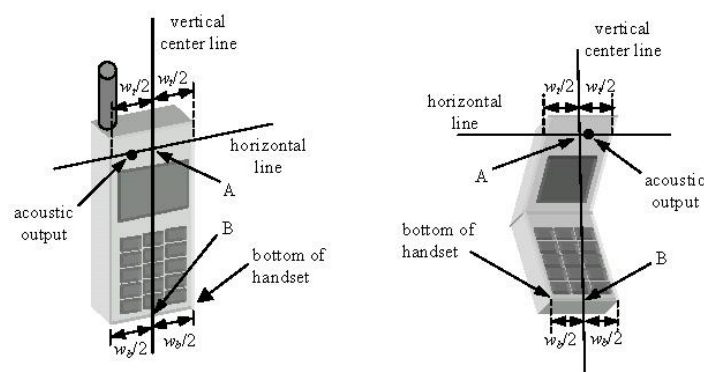
**Figure 5-1**  
Close-Up Side view  
of ERP

### 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.

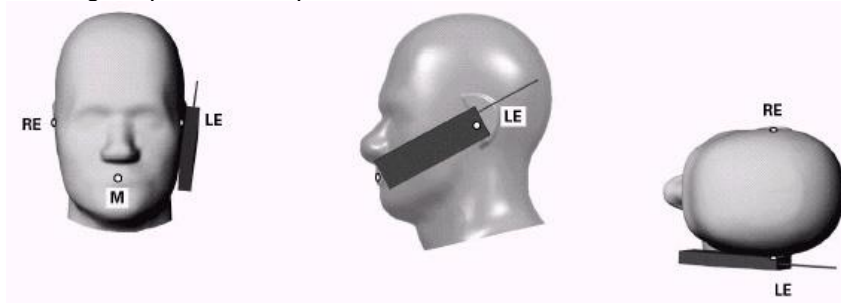


Figure 6-1 Front, Side and Top View of Cheek Position

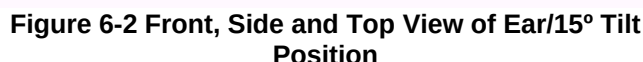
2. The handset was translated towards the phantom along the line passing through RE & LE until the handset touches the pinna.
3. While maintaining the handset in this plane, the handset was rotated around the LE-RE line until the vertical centerline was in the reference plane.
4. The phone was then rotated 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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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  $> 150 \text{ mm}$  or an overall diagonal dimension  $> 160 \text{ mm}$  that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that 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.

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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## 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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| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset |                                                                                       | Page 25 of 224                  |

## 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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| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                                 | Page 28 of 224                  |

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 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.

|                                         |                                                                                                                                                                                                              |                               |                                                                                                 |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
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### 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 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.

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
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### 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 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. 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.

### 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.

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
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### 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

### 9.1 GSM Conducted Powers

Table 9-1  
Measured  $P_{max}$

| Maximum Burst-Averaged Output Power |         |                          |                         |                         |                         |                         |                         |                         |                         |                         |
|-------------------------------------|---------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|                                     |         | Voice                    | GPRS/EDGE Data (GMSK)   |                         |                         |                         | EDGE Data (8-PSK)       |                         |                         |                         |
| Band                                | Channel | GSM [dBm]<br>CS (1 Slot) | GPRS [dBm]<br>1 Tx Slot | GPRS [dBm]<br>2 Tx Slot | GPRS [dBm]<br>3 Tx Slot | GPRS [dBm]<br>4 Tx Slot | EDGE [dBm]<br>1 Tx Slot | EDGE [dBm]<br>2 Tx Slot | EDGE [dBm]<br>3 Tx Slot | EDGE [dBm]<br>4 Tx Slot |
| GSM 850                             | 128     | 33.38                    | 33.47                   | 31.88                   | 30.00                   | <b>28.50</b>            | 27.05                   | 26.71                   | 25.34                   | 24.18                   |
|                                     | 190     | 33.00                    | 33.14                   | 31.62                   | 29.98                   | <b>28.43</b>            | 26.92                   | 26.56                   | 25.23                   | 24.15                   |
|                                     | 251     | 32.97                    | 33.04                   | 31.42                   | 29.59                   | <b>28.04</b>            | 26.68                   | 26.32                   | 24.90                   | 23.82                   |
| GSM 1900                            | 512     | 29.81                    | 29.81                   | 28.64                   | <b>27.54</b>            | 25.78                   | 25.24                   | 25.00                   | 23.86                   | 23.36                   |
|                                     | 661     | 29.90                    | 29.89                   | 28.86                   | <b>27.70</b>            | 26.00                   | 25.55                   | 25.30                   | 24.12                   | 23.60                   |
|                                     | 810     | 29.68                    | 29.68                   | 28.42                   | <b>27.35</b>            | 25.82                   | 25.27                   | 25.04                   | 23.92                   | 23.22                   |

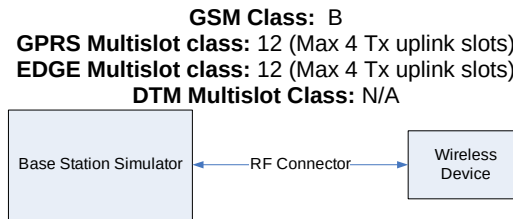
| Calculated Maximum Frame-Averaged Output Power |         |                          |                         |                         |                         |                         |                         |                         |                         |                         |
|------------------------------------------------|---------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|                                                |         | Voice                    | GPRS/EDGE Data (GMSK)   |                         |                         |                         | EDGE Data (8-PSK)       |                         |                         |                         |
| Band                                           | Channel | GSM [dBm]<br>CS (1 Slot) | GPRS [dBm]<br>1 Tx Slot | GPRS [dBm]<br>2 Tx Slot | GPRS [dBm]<br>3 Tx Slot | GPRS [dBm]<br>4 Tx Slot | EDGE [dBm]<br>1 Tx Slot | EDGE [dBm]<br>2 Tx Slot | EDGE [dBm]<br>3 Tx Slot | EDGE [dBm]<br>4 Tx Slot |
| GSM 850                                        | 128     | 24.18                    | 24.27                   | 25.69                   | 25.57                   | <b>25.32</b>            | 17.85                   | 20.52                   | 20.91                   | 21.00                   |
|                                                | 190     | 23.80                    | 23.94                   | 25.43                   | 25.55                   | <b>25.25</b>            | 17.72                   | 20.37                   | 20.80                   | 20.97                   |
|                                                | 251     | 23.77                    | 23.84                   | 25.23                   | 25.16                   | <b>24.86</b>            | 17.48                   | 20.13                   | 20.47                   | 20.64                   |
| GSM 1900                                       | 512     | 20.61                    | 20.61                   | 22.45                   | <b>23.11</b>            | 22.60                   | 16.04                   | 18.81                   | 19.43                   | 20.18                   |
|                                                | 661     | 20.70                    | 20.69                   | 22.67                   | <b>23.27</b>            | 22.82                   | 16.35                   | 19.11                   | 19.69                   | 20.42                   |
|                                                | 810     | 20.48                    | 20.48                   | 22.23                   | <b>22.92</b>            | 22.64                   | 16.07                   | 18.85                   | 19.49                   | 20.04                   |

|          |                       |       |       |       |              |              |       |       |       |       |
|----------|-----------------------|-------|-------|-------|--------------|--------------|-------|-------|-------|-------|
| GSM 850  | Frame<br>Avg.Targets: | 23.30 | 23.30 | 24.81 | 24.57        | <b>24.82</b> | 17.30 | 19.81 | 20.57 | 20.82 |
| GSM 1900 |                       | 20.30 | 20.30 | 21.81 | <b>22.57</b> | 21.82        | 16.30 | 18.81 | 19.57 | 19.82 |

|                                         |                                                                                                                                                                                                                                     |                               |                       |                                                                                       |                                 |
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Note:

1. 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.
2. 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.
3. 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.



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

## 9.2 CDMA Conducted Powers

**Table 9-2**  
**Measured  $P_{max}$**

|          |         |           |           | Loopback   |            |            | Data            |                 |                      |                      |
|----------|---------|-----------|-----------|------------|------------|------------|-----------------|-----------------|----------------------|----------------------|
| 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 | 1013    | 22H       | 824.7     | 24.96      | 25.01      | 24.92      | 24.97           | 24.95           | 24.96                | 24.97                |
|          | 384     | 22H       | 836.52    | 25.13      | 25.09      | 25.01      | 25.18           | 25.17           | 25.18                | 25.20                |
|          | 777     | 22H       | 848.31    | 25.04      | 25.05      | 24.95      | 25.05           | 25.07           | 25.04                | 25.06                |
| PCS      | 25      | 24E       | 1851.25   | 24.95      | 24.92      | 24.80      | 25.00           | 24.99           | 24.97                | 25.00                |
|          | 600     | 24E       | 1880      | 25.10      | 25.11      | 24.85      | 25.10           | 25.07           | 25.11                | 25.12                |
|          | 1175    | 24E       | 1908.75   | 25.05      | 25.07      | 24.92      | 25.08           | 25.07           | 25.06                | 25.07                |

|                                         |                                                                                                                                  |                               |                                                                                       |                                 |
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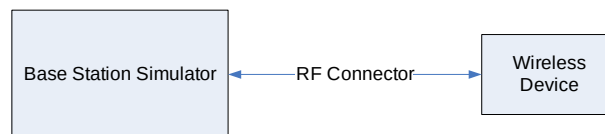
**Table 9-3**  
**Measured  $P_{limit}$  for DSI = 6 (Dual Display Cover 0° or 360°) or DSI = 7 (Dual Display Cover 180°)**

|      |         |           |           | Loopback   |            |            | Data            |                 |                      |                      |
|------|---------|-----------|-----------|------------|------------|------------|-----------------|-----------------|----------------------|----------------------|
| 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   | 24.13      | 24.14      | 24.11      | 24.13           | 24.13           | 23.92                | 23.87                |
|      | 600     | 24E       | 1880      | 24.19      | 24.22      | 24.15      | 24.21           | 24.20           | 24.08                | 24.15                |
|      | 1175    | 24E       | 1908.75   | 24.19      | 24.19      | 24.17      | 24.20           | 24.19           | 23.92                | 24.02                |

**Table 9-4**  
**Measured  $P_{limit}$  for DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor active)**

|      |         |           |           | Loopback   |            |            | Data            |                 |                      |                      |
|------|---------|-----------|-----------|------------|------------|------------|-----------------|-----------------|----------------------|----------------------|
| 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   | 21.91      | 21.94      | 21.82      | 21.95           | 21.94           | 22.21                | 22.16                |
|      | 600     | 24E       | 1880      | 22.02      | 22.05      | 21.85      | 22.07           | 22.06           | 22.09                | 22.30                |
|      | 1175    | 24E       | 1908.75   | 22.09      | 22.11      | 21.86      | 22.11           | 22.11           | 22.37                | 22.34                |

Note: RC1 is only applicable for IS-95 compatibility.



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

|                                         |                                                                                                                    |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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## 9.3 UMTS Conducted Powers

**Table 9-5**  
**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       | 25.01               | 25.04 | 25.10 | 25.02          | 25.10 | 25.05 | 25.02          | 25.09 | 25.05 | -             |
| 99                   |          | 12.2 kbps AMR       | 25.00               | 25.02 | 25.09 | 25.01          | 25.11 | 25.05 | 25.00          | 25.04 | 25.03 | -             |
| 6                    | HSDPA    | Subtest 1           | 24.91               | 24.89 | 24.88 | 24.82          | 24.95 | 24.94 | 24.91          | 24.89 | 24.80 | 0             |
| 6                    |          | Subtest 2           | 24.85               | 24.90 | 24.86 | 24.75          | 24.99 | 24.95 | 24.95          | 24.86 | 24.78 | 0             |
| 6                    |          | Subtest 3           | 24.41               | 24.40 | 24.35 | 24.31          | 24.43 | 24.42 | 24.37          | 24.39 | 24.33 | 0.5           |
| 6                    |          | Subtest 4           | 24.40               | 24.39 | 24.42 | 24.38          | 24.45 | 24.42 | 24.42          | 24.42 | 24.31 | 0.5           |
| 6                    | HSUPA    | Subtest 1           | 24.69               | 24.70 | 24.67 | 24.70          | 24.72 | 24.74 | 24.67          | 24.66 | 24.62 | 0             |
| 6                    |          | Subtest 2           | 22.88               | 22.90 | 22.85 | 22.89          | 22.91 | 22.92 | 22.89          | 22.88 | 22.82 | 2             |
| 6                    |          | Subtest 3           | 23.90               | 23.91 | 23.84 | 23.87          | 23.90 | 23.88 | 23.94          | 23.90 | 23.82 | 1             |
| 6                    |          | Subtest 4           | 22.86               | 22.89 | 22.85 | 22.91          | 22.95 | 22.89 | 22.90          | 22.90 | 22.85 | 2             |
| 6                    |          | Subtest 5           | 24.87               | 24.89 | 24.85 | 24.84          | 24.94 | 24.91 | 24.94          | 24.80 | 24.83 | 0             |
| 8                    | DC-HSDPA | Subtest 1           | 25.00               | 25.05 | 25.01 | 24.70          | 25.04 | 25.07 | 25.00          | 25.06 | 25.02 | 0             |
| 8                    |          | Subtest 2           | 25.01               | 25.06 | 25.01 | 24.69          | 25.07 | 25.08 | 25.00          | 25.04 | 25.01 | 0             |
| 8                    |          | Subtest 3           | 24.50               | 24.55 | 24.50 | 24.18          | 24.56 | 24.57 | 24.48          | 24.54 | 24.55 | 0.5           |
| 8                    |          | Subtest 4           | 24.52               | 24.55 | 24.52 | 24.18          | 24.55 | 24.54 | 24.50          | 24.52 | 24.52 | 0.5           |

**Table 9-6**  
**Measured  $P_{limit}$  for DSI = 6 (Dual Display Cover 0° or 360°) or DSI = 7 (Dual Display Cover 180°)**

| 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       | 24.20          | 24.22 | 24.21 | 24.24          | 24.16 | 24.05 | -             |
| 99                   |          | 12.2 kbps AMR       | 24.18          | 24.22 | 24.20 | 24.19          | 24.17 | 24.09 | -             |
| 6                    | HSDPA    | Subtest 1           | 24.24          | 24.23 | 24.23 | 24.20          | 24.18 | 24.10 | 0             |
| 6                    |          | Subtest 2           | 24.19          | 24.24 | 24.28 | 24.19          | 24.20 | 24.08 | 0             |
| 6                    |          | Subtest 3           | 23.73          | 23.75 | 23.75 | 23.65          | 23.69 | 23.62 | 0.5           |
| 6                    |          | Subtest 4           | 23.64          | 23.77 | 23.74 | 23.67          | 23.65 | 23.61 | 0.5           |
| 6                    | HSUPA    | Subtest 1           | 23.55          | 23.56 | 23.53 | 23.46          | 23.44 | 23.41 | 0             |
| 6                    |          | Subtest 2           | 22.24          | 22.28 | 22.27 | 22.20          | 22.15 | 22.14 | 2             |
| 6                    |          | Subtest 3           | 23.21          | 23.30 | 23.25 | 23.21          | 23.18 | 23.15 | 1             |
| 6                    |          | Subtest 4           | 22.25          | 22.31 | 22.25 | 22.24          | 22.24 | 22.12 | 2             |
| 6                    |          | Subtest 5           | 24.26          | 24.25 | 24.23 | 24.18          | 24.17 | 24.12 | 0             |
| 8                    | DC-HSDPA | Subtest 1           | 24.33          | 24.36 | 24.38 | 24.28          | 24.28 | 24.25 | 0             |
| 8                    |          | Subtest 2           | 24.19          | 24.25 | 24.24 | 24.19          | 24.15 | 24.12 | 0             |
| 8                    |          | Subtest 3           | 23.72          | 23.75 | 23.74 | 23.69          | 23.67 | 23.63 | 0.5           |
| 8                    |          | Subtest 4           | 23.75          | 23.78 | 23.76 | 23.69          | 23.66 | 23.65 | 0.5           |

|                                         |                                                                                                                                                                                                                      |                               |                                                                                                 |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  element | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                                   | DUT Type:<br>Portable Handset |                                                                                                 | Page 38 of 224                  |

**Table 9-7**  
**Measured  $P_{limit}$  for DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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       | 22.47          | 22.43 | 22.45 | 22.42          | 22.44 | 22.50 | -             |
| 99                   |          | 12.2 kbps AMR       | 22.43          | 22.45 | 22.48 | 22.49          | 22.44 | 22.45 | -             |
| 6                    | HSDPA    | Subtest 1           | 22.30          | 22.32 | 22.25 | 22.26          | 22.25 | 22.19 | 0             |
| 6                    |          | Subtest 2           | 22.29          | 22.34 | 22.30 | 22.22          | 22.23 | 22.15 | 0             |
| 6                    |          | Subtest 3           | 21.76          | 21.79 | 21.82 | 21.77          | 21.71 | 21.63 | 0.5           |
| 6                    |          | Subtest 4           | 21.76          | 21.82 | 21.85 | 21.74          | 21.73 | 21.62 | 0.5           |
| 6                    | HSUPA    | Subtest 1           | 21.52          | 21.57 | 21.60 | 21.55          | 21.55 | 21.49 | 0             |
| 6                    |          | Subtest 2           | 20.25          | 20.30 | 20.26 | 20.23          | 20.23 | 20.18 | 2             |
| 6                    |          | Subtest 3           | 21.23          | 21.30 | 21.27 | 21.28          | 21.22 | 21.13 | 1             |
| 6                    |          | Subtest 4           | 20.29          | 20.29 | 20.27 | 20.25          | 20.21 | 20.15 | 2             |
| 6                    |          | Subtest 5           | 22.26          | 22.29 | 22.27 | 22.24          | 22.22 | 22.16 | 0             |
| 8                    | DC-HSDPA | Subtest 1           | 22.23          | 22.32 | 22.30 | 22.27          | 22.22 | 22.18 | 0             |
| 8                    |          | Subtest 2           | 22.22          | 22.30 | 22.29 | 22.26          | 22.18 | 22.16 | 0             |
| 8                    |          | Subtest 3           | 21.73          | 21.78 | 21.77 | 21.71          | 21.70 | 21.64 | 0.5           |
| 8                    |          | Subtest 4           | 21.78          | 21.79 | 21.78 | 21.76          | 21.70 | 21.68 | 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



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

|                                         |                                                                                                                                   |                               |                                                                                       |                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       | <br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                | DUT Type:<br>Portable Handset | Page 39 of 224                                                                        |                                 |

## 9.4 LTE Conducted Powers

### 9.4.1 LTE Band 71

Table 9-8  
LTE Band 71 Measured  $P_{max}$  - 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         | 25.35                    | 0                            | 0        |
|                                 | 1       | 50        | <b>25.40</b>             |                              | 0        |
|                                 | 1       | 99        | 25.39                    |                              | 0        |
|                                 | 50      | 0         | <b>24.47</b>             | 0-1                          | 1        |
|                                 | 50      | 25        | 24.45                    |                              | 1        |
|                                 | 50      | 50        | 24.40                    |                              | 1        |
|                                 | 100     | 0         | 24.39                    |                              | 1        |
| 16QAM                           | 1       | 0         | 24.50                    | 0-1                          | 1        |
|                                 | 1       | 50        | 24.48                    |                              | 1        |
|                                 | 1       | 99        | 24.50                    |                              | 1        |
|                                 | 50      | 0         | 23.49                    | 0-2                          | 2        |
|                                 | 50      | 25        | 23.50                    |                              | 2        |
|                                 | 50      | 50        | 23.43                    |                              | 2        |
|                                 | 100     | 0         | 23.38                    |                              | 2        |
| 64QAM                           | 1       | 0         | 23.22                    | 0-2                          | 2        |
|                                 | 1       | 50        | 23.12                    |                              | 2        |
|                                 | 1       | 99        | 23.50                    |                              | 2        |
|                                 | 50      | 0         | 22.43                    | 0-3                          | 3        |
|                                 | 50      | 25        | 22.49                    |                              | 3        |
|                                 | 50      | 50        | 22.40                    |                              | 3        |
|                                 | 100     | 0         | 22.49                    |                              | 3        |

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.

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 40 of 224                  |

**Table 9-9**  
**LTE Band 71 Measured  $P_{max}$  - 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         | 25.02                    | 0                            | 0        |
|                                 | 1       | 36        | 25.09                    |                              | 0        |
|                                 | 1       | 74        | 25.04                    |                              | 0        |
|                                 | 36      | 0         | 24.25                    | 0-1                          | 1        |
|                                 | 36      | 18        | 24.20                    |                              | 1        |
|                                 | 36      | 37        | 24.22                    |                              | 1        |
|                                 | 75      | 0         | 24.14                    |                              | 1        |
| 16QAM                           | 1       | 0         | 24.45                    | 0-1                          | 1        |
|                                 | 1       | 36        | 24.47                    |                              | 1        |
|                                 | 1       | 74        | 24.46                    |                              | 1        |
|                                 | 36      | 0         | 23.22                    | 0-2                          | 2        |
|                                 | 36      | 18        | 23.20                    |                              | 2        |
|                                 | 36      | 37        | 23.22                    |                              | 2        |
|                                 | 75      | 0         | 23.17                    |                              | 2        |
| 64QAM                           | 1       | 0         | 23.09                    | 0-2                          | 2        |
|                                 | 1       | 36        | 23.11                    |                              | 2        |
|                                 | 1       | 74        | 23.14                    |                              | 2        |
|                                 | 36      | 0         | 22.30                    | 0-3                          | 3        |
|                                 | 36      | 18        | 22.25                    |                              | 3        |
|                                 | 36      | 37        | 22.28                    |                              | 3        |
|                                 | 75      | 0         | 22.21                    |                              | 3        |

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>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset |                                                                                       | Page 41 of 224                  |

**Table 9-10**  
**LTE Band 71 Measured  $P_{max}$  - 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         | 25.12                 | 25.13                 | 25.15                 | 0                            | 0        |
|                                 | 1       | 25        | 25.01                 | 25.16                 | 25.12                 |                              | 0        |
|                                 | 1       | 49        | 25.05                 | 25.18                 | 25.01                 |                              | 0        |
|                                 | 25      | 0         | 24.21                 | 24.17                 | 24.20                 | 0-1                          | 1        |
|                                 | 25      | 12        | 24.17                 | 24.19                 | 24.27                 |                              | 1        |
|                                 | 25      | 25        | 24.11                 | 24.22                 | 24.18                 |                              | 1        |
| 16QAM                           | 50      | 0         | 24.12                 | 24.14                 | 24.19                 | 0-1                          | 1        |
|                                 | 1       | 0         | 24.16                 | 24.50                 | 24.50                 |                              | 1        |
|                                 | 1       | 25        | 24.29                 | 24.50                 | 24.50                 |                              | 1        |
|                                 | 1       | 49        | 24.26                 | 23.99                 | 24.42                 | 0-2                          | 1        |
|                                 | 25      | 0         | 23.26                 | 23.26                 | 23.31                 |                              | 2        |
|                                 | 25      | 12        | 23.23                 | 23.27                 | 23.37                 |                              | 2        |
| 64QAM                           | 25      | 25        | 23.18                 | 23.26                 | 23.31                 | 0-2                          | 2        |
|                                 | 50      | 0         | 23.12                 | 23.16                 | 23.25                 |                              | 2        |
|                                 | 1       | 0         | 23.20                 | 23.23                 | 23.45                 |                              | 0-2      |
|                                 | 1       | 25        | 22.76                 | 23.31                 | 23.48                 | 2                            |          |
|                                 | 1       | 49        | 22.86                 | 23.15                 | 22.77                 | 2                            |          |
|                                 | 25      | 0         | 21.54                 | 22.28                 | 22.33                 | 0-3                          | 3        |
| 25                              | 12      | 21.98     | 22.29                 | 22.39                 | 3                     |                              |          |
| 25                              | 25      | 21.89     | 22.28                 | 22.32                 | 3                     |                              |          |
|                                 | 50      | 0         | 21.63                 | 22.18                 | 22.27                 |                              | 3        |

**Table 9-11**  
**LTE Band 71 Measured  $P_{max}$  - 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         | 24.77                 | 25.08                 | 25.06                 | 0                            | 0        |
|                                | 1       | 12        | 25.08                 | 25.24                 | 25.18                 |                              | 0        |
|                                | 1       | 24        | 25.03                 | 25.24                 | 25.13                 |                              | 0        |
|                                | 12      | 0         | 23.96                 | 24.20                 | 24.16                 | 0-1                          | 1        |
|                                | 12      | 6         | 24.26                 | 24.29                 | 24.22                 |                              | 1        |
|                                | 12      | 13        | 24.19                 | 24.27                 | 24.24                 |                              | 1        |
| 16QAM                          | 25      | 0         | 24.25                 | 24.19                 | 24.18                 | 0-1                          | 1        |
|                                | 1       | 0         | 24.13                 | 24.23                 | 24.44                 |                              | 1        |
|                                | 1       | 12        | 24.41                 | 24.38                 | 24.49                 |                              | 1        |
|                                | 1       | 24        | 24.47                 | 24.36                 | 24.45                 | 0-2                          | 1        |
|                                | 12      | 0         | 23.01                 | 23.18                 | 23.33                 |                              | 2        |
|                                | 12      | 6         | 23.27                 | 23.24                 | 23.44                 |                              | 2        |
| 64QAM                          | 12      | 13        | 23.20                 | 23.29                 | 23.40                 | 0-2                          | 2        |
|                                | 25      | 0         | 23.18                 | 23.24                 | 23.19                 |                              | 2        |
|                                | 1       | 0         | 23.17                 | 23.43                 | 23.18                 |                              | 0-2      |
|                                | 1       | 12        | 22.71                 | 23.50                 | 23.24                 | 2                            |          |
|                                | 1       | 24        | 22.55                 | 23.50                 | 23.02                 | 0-3                          |          |
|                                | 12      | 0         | 22.15                 | 22.29                 | 22.17                 |                              | 3        |
| 12                             | 6       | 21.87     | 22.36                 | 22.20                 | 3                     |                              |          |
| 12                             | 13      | 21.83     | 22.37                 | 22.23                 | 3                     |                              |          |
| 25                             | 0       | 21.50     | 22.25                 | 22.21                 |                       | 3                            |          |

|                                         |                                                                                                                                  |                               |                                                                                                 |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset | Page 42 of 224                                                                                  |                                 |

## 9.4.2

## LTE Band 12

Table 9-12  
LTE Band 12 Measured  $P_{max}$  - 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         | 25.26                    | 0                            | 0        |
|                                 | 1       | 25        | 25.30                    |                              | 0        |
|                                 | 1       | 49        | <b>25.31</b>             |                              | 0        |
|                                 | 25      | 0         | 24.29                    | 0-1                          | 1        |
|                                 | 25      | 12        | 24.30                    |                              | 1        |
|                                 | 25      | 25        | <b>24.34</b>             |                              | 1        |
|                                 | 50      | 0         | 24.32                    |                              | 1        |
| 16QAM                           | 1       | 0         | 24.45                    | 0-1                          | 1        |
|                                 | 1       | 25        | 24.50                    |                              | 1        |
|                                 | 1       | 49        | 24.49                    |                              | 1        |
|                                 | 25      | 0         | 23.29                    | 0-2                          | 2        |
|                                 | 25      | 12        | 23.31                    |                              | 2        |
|                                 | 25      | 25        | 23.30                    |                              | 2        |
|                                 | 50      | 0         | 23.23                    |                              | 2        |
| 64QAM                           | 1       | 0         | 23.43                    | 0-2                          | 2        |
|                                 | 1       | 25        | 23.50                    |                              | 2        |
|                                 | 1       | 49        | 23.38                    |                              | 2        |
|                                 | 25      | 0         | 22.26                    | 0-3                          | 3        |
|                                 | 25      | 12        | 22.37                    |                              | 3        |
|                                 | 25      | 25        | 22.36                    |                              | 3        |
|                                 | 50      | 0         | 22.27                    |                              | 3        |

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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| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 43 of 224                  |

**Table 9-13**  
**LTE Band 12 Measured  $P_{max}$  - 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         | 25.08                 | 25.18                | 25.17                | 0                            | 0        |
|                                | 1       | 12        | 25.07                 | 25.24                | 25.23                |                              | 0        |
|                                | 1       | 24        | 25.05                 | 25.17                | 25.15                |                              | 0        |
|                                | 12      | 0         | 24.26                 | 24.20                | 24.25                | 0-1                          | 1        |
|                                | 12      | 6         | 24.25                 | 24.26                | 24.29                |                              | 1        |
|                                | 12      | 13        | 24.24                 | 24.22                | 24.21                |                              | 1        |
|                                | 25      | 0         | 24.28                 | 24.18                | 24.22                |                              | 1        |
| 16QAM                          | 1       | 0         | 24.43                 | 24.31                | 24.33                | 0-1                          | 1        |
|                                | 1       | 12        | 24.48                 | 24.35                | 24.33                |                              | 1        |
|                                | 1       | 24        | 24.48                 | 24.30                | 24.29                |                              | 1        |
|                                | 12      | 0         | 23.28                 | 23.19                | 23.41                | 0-2                          | 2        |
|                                | 12      | 6         | 23.29                 | 23.22                | 23.48                |                              | 2        |
|                                | 12      | 13        | 23.23                 | 23.24                | 23.40                |                              | 2        |
|                                | 25      | 0         | 23.30                 | 23.25                | 23.24                |                              | 2        |
| 64QAM                          | 1       | 0         | 22.79                 | 23.48                | 23.28                | 0-2                          | 2        |
|                                | 1       | 12        | 23.14                 | 23.50                | 23.24                |                              | 2        |
|                                | 1       | 24        | 23.01                 | 23.50                | 23.22                |                              | 2        |
|                                | 12      | 0         | 21.93                 | 22.32                | 22.20                | 0-3                          | 3        |
|                                | 12      | 6         | 22.15                 | 22.29                | 22.22                |                              | 3        |
|                                | 12      | 13        | 22.32                 | 22.31                | 22.20                |                              | 3        |
|                                | 25      | 0         | 22.07                 | 22.26                | 22.19                |                              | 3        |

**Table 9-14**  
**LTE Band 12 Measured  $P_{max}$  - 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         | 25.19                 | 25.18                | 25.06                | 0                            | 0        |
|                                | 1       | 7         | 25.13                 | 25.17                | 25.05                |                              | 0        |
|                                | 1       | 14        | 25.12                 | 25.16                | 25.04                |                              | 0        |
|                                | 8       | 0         | 24.21                 | 24.23                | 24.19                | 0-1                          | 1        |
|                                | 8       | 4         | 24.20                 | 24.30                | 24.20                |                              | 1        |
|                                | 8       | 7         | 24.23                 | 24.24                | 24.22                |                              | 1        |
|                                | 15      | 0         | 24.21                 | 24.22                | 24.16                |                              | 1        |
| 16QAM                          | 1       | 0         | 24.44                 | 24.50                | 24.50                | 0-1                          | 1        |
|                                | 1       | 7         | 24.35                 | 23.99                | 24.46                |                              | 1        |
|                                | 1       | 14        | 24.37                 | 24.00                | 24.45                |                              | 1        |
|                                | 8       | 0         | 23.27                 | 23.34                | 23.31                | 0-2                          | 2        |
|                                | 8       | 4         | 23.28                 | 23.38                | 23.36                |                              | 2        |
|                                | 8       | 7         | 23.27                 | 23.39                | 23.32                |                              | 2        |
|                                | 15      | 0         | 23.19                 | 23.31                | 23.26                |                              | 2        |
| 64QAM                          | 1       | 0         | 22.44                 | 23.23                | 23.39                | 0-2                          | 2        |
|                                | 1       | 7         | 22.68                 | 23.21                | 23.42                |                              | 2        |
|                                | 1       | 14        | 22.71                 | 23.24                | 23.31                |                              | 2        |
|                                | 8       | 0         | 21.74                 | 22.30                | 22.20                | 0-3                          | 3        |
|                                | 8       | 4         | 21.95                 | 22.34                | 22.27                |                              | 3        |
|                                | 8       | 7         | 22.07                 | 22.29                | 22.25                |                              | 3        |
|                                | 15      | 0         | 21.97                 | 22.20                | 22.24                |                              | 3        |

|                                         |                                                                                                                                                 |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset |                                                                                       | Page 44 of 224                  |

**Table 9-15**  
**LTE Band 12 Measured  $P_{max}$  -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         | 25.12                 | 25.20                | 25.00                | 0                            | 0        |
|                                  | 1       | 2         | 25.17                 | 25.29                | 25.05                |                              | 0        |
|                                  | 1       | 5         | 25.08                 | 25.24                | 24.95                |                              | 0        |
|                                  | 3       | 0         | 25.07                 | 25.04                | 25.06                |                              | 0        |
|                                  | 3       | 2         | 25.12                 | 25.17                | 25.09                |                              | 0        |
|                                  | 3       | 3         | 25.10                 | 25.10                | 25.03                |                              | 0        |
|                                  | 6       | 0         | 24.15                 | 24.13                | 24.14                | 0-1                          | 1        |
| 16QAM                            | 1       | 0         | 24.30                 | 24.45                | 24.41                | 0-1                          | 1        |
|                                  | 1       | 2         | 24.37                 | 24.47                | 24.44                |                              | 1        |
|                                  | 1       | 5         | 24.36                 | 24.48                | 24.40                |                              | 1        |
|                                  | 3       | 0         | 24.35                 | 24.32                | 24.16                |                              | 1        |
|                                  | 3       | 2         | 24.36                 | 24.43                | 24.18                |                              | 1        |
|                                  | 3       | 3         | 24.37                 | 24.40                | 24.13                |                              | 1        |
|                                  | 6       | 0         | 23.16                 | 23.28                | 23.20                | 0-2                          | 2        |
| 64QAM                            | 1       | 0         | 22.44                 | 23.35                | 23.30                | 0-2                          | 2        |
|                                  | 1       | 2         | 22.59                 | 23.48                | 23.36                |                              | 2        |
|                                  | 1       | 5         | 22.62                 | 23.40                | 23.32                |                              | 2        |
|                                  | 3       | 0         | 22.53                 | 23.29                | 23.27                |                              | 2        |
|                                  | 3       | 2         | 22.74                 | 23.41                | 23.29                |                              | 2        |
|                                  | 3       | 3         | 22.78                 | 23.36                | 23.25                |                              | 2        |
|                                  | 6       | 0         | 21.64                 | 22.10                | 22.18                | 0-3                          | 3        |

|                                         |                                                                                                                                                 |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset |                                                                                       | Page 45 of 224                  |

### 9.4.3

### LTE Band 13

Table 9-16  
LTE Band 13 Measured  $P_{max}$  - 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         | 25.11                    | 0                            | 0        |
|                                 | 1       | 25        | <b>25.33</b>             |                              | 0        |
|                                 | 1       | 49        | 25.20                    |                              | 0        |
|                                 | 25      | 0         | 24.19                    | 0-1                          | 1        |
|                                 | 25      | 12        | 24.27                    |                              | 1        |
|                                 | 25      | 25        | <b>24.33</b>             |                              | 1        |
|                                 | 50      | 0         | 24.16                    |                              | 1        |
| 16QAM                           | 1       | 0         | 24.47                    | 0-1                          | 1        |
|                                 | 1       | 25        | 24.49                    |                              | 1        |
|                                 | 1       | 49        | 24.49                    |                              | 1        |
|                                 | 25      | 0         | 23.22                    | 0-2                          | 2        |
|                                 | 25      | 12        | 23.31                    |                              | 2        |
|                                 | 25      | 25        | 23.32                    |                              | 2        |
|                                 | 50      | 0         | 23.21                    |                              | 2        |
| 64QAM                           | 1       | 0         | 23.19                    | 0-2                          | 2        |
|                                 | 1       | 25        | 23.50                    |                              | 2        |
|                                 | 1       | 49        | 23.31                    |                              | 2        |
|                                 | 25      | 0         | 22.22                    | 0-3                          | 3        |
|                                 | 25      | 12        | 22.41                    |                              | 3        |
|                                 | 25      | 25        | 22.35                    |                              | 3        |
|                                 | 50      | 0         | 22.24                    |                              | 3        |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 46 of 224                  |

**Table 9-17**  
**LTE Band 13 Measured  $P_{max}$  - 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         | 25.02                    | 0                            | 0        |
|                                | 1       | 12        | 25.12                    |                              | 0        |
|                                | 1       | 24        | 25.14                    |                              | 0        |
|                                | 12      | 0         | 24.11                    | 0-1                          | 1        |
|                                | 12      | 6         | 24.19                    |                              | 1        |
|                                | 12      | 13        | 24.21                    |                              | 1        |
|                                | 25      | 0         | 24.12                    |                              | 1        |
| 16QAM                          | 1       | 0         | 24.18                    | 0-1                          | 1        |
|                                | 1       | 12        | 24.28                    |                              | 1        |
|                                | 1       | 24        | 24.31                    |                              | 1        |
|                                | 12      | 0         | 23.12                    | 0-2                          | 2        |
|                                | 12      | 6         | 23.17                    |                              | 2        |
|                                | 12      | 13        | 23.21                    |                              | 2        |
|                                | 25      | 0         | 23.19                    |                              | 2        |
| 64QAM                          | 1       | 0         | 23.29                    | 0-2                          | 2        |
|                                | 1       | 12        | 23.34                    |                              | 2        |
|                                | 1       | 24        | 23.38                    |                              | 2        |
|                                | 12      | 0         | 22.21                    | 0-3                          | 3        |
|                                | 12      | 6         | 22.28                    |                              | 3        |
|                                | 12      | 13        | 22.29                    |                              | 3        |
|                                | 25      | 0         | 22.19                    |                              | 3        |

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.

|                                         |                                                                                                                                                 |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset |                                                                                       | Page 47 of 224                  |

## 9.4.4

## LTE Band 14

Table 9-18  
LTE Band 14 Measured  $P_{max}$  - 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         | 25.33                    | 0                            | 0        |
|                                 | 1       | 25        | 25.25                    |                              | 0        |
|                                 | 1       | 49        | 25.29                    |                              | 0        |
|                                 | 25      | 0         | 24.22                    | 0-1                          | 1        |
|                                 | 25      | 12        | 24.26                    |                              | 1        |
|                                 | 25      | 25        | 24.21                    |                              | 1        |
|                                 | 50      | 0         | 24.19                    |                              | 1        |
| 16QAM                           | 1       | 0         | 24.48                    | 0-1                          | 1        |
|                                 | 1       | 25        | 24.50                    |                              | 1        |
|                                 | 1       | 49        | 24.45                    |                              | 1        |
|                                 | 25      | 0         | 23.22                    | 0-2                          | 2        |
|                                 | 25      | 12        | 23.27                    |                              | 2        |
|                                 | 25      | 25        | 23.30                    |                              | 2        |
|                                 | 50      | 0         | 23.19                    |                              | 2        |
| 64QAM                           | 1       | 0         | 23.48                    | 0-2                          | 2        |
|                                 | 1       | 25        | 23.49                    |                              | 2        |
|                                 | 1       | 49        | 23.50                    |                              | 2        |
|                                 | 25      | 0         | 22.28                    | 0-3                          | 3        |
|                                 | 25      | 12        | 22.38                    |                              | 3        |
|                                 | 25      | 25        | 22.27                    |                              | 3        |
|                                 | 50      | 0         | 22.26                    |                              | 3        |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 48 of 224                  |

**Table 9-19**  
**LTE Band 14 Measured  $P_{max}$  - 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         | 25.05                    | 0                            | 0        |
|                                | 1       | 12        | 25.16                    |                              | 0        |
|                                | 1       | 24        | 25.17                    |                              | 0        |
|                                | 12      | 0         | 24.19                    | 0-1                          | 1        |
|                                | 12      | 6         | 24.18                    |                              | 1        |
|                                | 12      | 13        | 24.18                    |                              | 1        |
|                                | 25      | 0         | 24.18                    |                              | 1        |
| 16QAM                          | 1       | 0         | 24.39                    | 0-1                          | 1        |
|                                | 1       | 12        | 24.50                    |                              | 1        |
|                                | 1       | 24        | 24.45                    |                              | 1        |
|                                | 12      | 0         | 23.20                    | 0-2                          | 2        |
|                                | 12      | 6         | 23.19                    |                              | 2        |
|                                | 12      | 13        | 23.15                    |                              | 2        |
|                                | 25      | 0         | 23.22                    |                              | 2        |
| 64QAM                          | 1       | 0         | 23.16                    | 0-2                          | 2        |
|                                | 1       | 12        | 23.33                    |                              | 2        |
|                                | 1       | 24        | 23.26                    |                              | 2        |
|                                | 12      | 0         | 22.26                    | 0-3                          | 3        |
|                                | 12      | 6         | 22.29                    |                              | 3        |
|                                | 12      | 13        | 22.24                    |                              | 3        |
|                                | 25      | 0         | 22.17                    |                              | 3        |

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.

|                                         |                                                                                                                                                 |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset |                                                                                       | Page 49 of 224                  |

## 9.4.5

## LTE Band 5 (Cell)

Table 9-20  
LTE Band 5 (Cell) Measured  $P_{max}$  - 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         | 24.95                    | 0                            | 0        |
|                                       | 1       | 25        | 24.89                    |                              | 0        |
|                                       | 1       | 49        | <b>24.97</b>             |                              | 0        |
|                                       | 25      | 0         | 23.94                    | 0-1                          | 1        |
|                                       | 25      | 12        | 23.91                    |                              | 1        |
|                                       | 25      | 25        | <b>23.98</b>             |                              | 1        |
|                                       | 50      | 0         | 23.97                    |                              | 1        |
| 16QAM                                 | 1       | 0         | 24.34                    | 0-1                          | 1        |
|                                       | 1       | 25        | 24.26                    |                              | 1        |
|                                       | 1       | 49        | 24.36                    |                              | 1        |
|                                       | 25      | 0         | 23.01                    | 0-2                          | 2        |
|                                       | 25      | 12        | 23.08                    |                              | 2        |
|                                       | 25      | 25        | 22.98                    |                              | 2        |
|                                       | 50      | 0         | 22.94                    |                              | 2        |
| 64QAM                                 | 1       | 0         | 23.16                    | 0-2                          | 2        |
|                                       | 1       | 25        | 23.35                    |                              | 2        |
|                                       | 1       | 49        | 23.27                    |                              | 2        |
|                                       | 25      | 0         | 21.98                    | 0-3                          | 3        |
|                                       | 25      | 12        | 22.09                    |                              | 3        |
|                                       | 25      | 25        | 22.03                    |                              | 3        |
|                                       | 50      | 0         | 21.98                    |                              | 3        |

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: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 50 of 224                  |

**Table 9-21**  
**LTE Band 5 (Cell) Measured  $P_{max}$  - 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         | 24.91                 | 24.97                | 24.99                | 0                            | 0        |
|                                      | 1       | 12        | 24.86                 | 25.09                | 25.03                |                              | 0        |
|                                      | 1       | 24        | 24.88                 | 25.02                | 24.96                |                              | 0        |
|                                      | 12      | 0         | 24.04                 | 24.02                | 24.03                | 0-1                          | 1        |
|                                      | 12      | 6         | 24.10                 | 24.06                | 24.06                |                              | 1        |
|                                      | 12      | 13        | 24.04                 | 24.07                | 24.04                |                              | 1        |
|                                      | 25      | 0         | 24.04                 | 24.08                | 24.01                |                              | 1        |
| 16QAM                                | 1       | 0         | 24.34                 | 24.11                | 24.20                | 0-1                          | 1        |
|                                      | 1       | 12        | 24.30                 | 24.20                | 24.32                |                              | 1        |
|                                      | 1       | 24        | 24.29                 | 24.16                | 24.24                |                              | 1        |
|                                      | 12      | 0         | 23.05                 | 23.02                | 23.02                | 0-2                          | 2        |
|                                      | 12      | 6         | 23.11                 | 23.07                | 23.05                |                              | 2        |
|                                      | 12      | 13        | 23.08                 | 23.09                | 23.08                |                              | 2        |
|                                      | 25      | 0         | 23.16                 | 23.12                | 23.07                |                              | 2        |
| 64QAM                                | 1       | 0         | 23.11                 | 23.29                | 22.50                | 0-2                          | 2        |
|                                      | 1       | 12        | 23.12                 | 23.40                | 22.77                |                              | 2        |
|                                      | 1       | 24        | 23.11                 | 23.34                | 22.68                |                              | 2        |
|                                      | 12      | 0         | 22.13                 | 22.13                | 21.61                | 0-3                          | 3        |
|                                      | 12      | 6         | 22.17                 | 22.20                | 21.83                |                              | 3        |
|                                      | 12      | 13        | 22.19                 | 22.21                | 22.07                |                              | 3        |
|                                      | 25      | 0         | 22.11                 | 22.16                | 21.81                |                              | 3        |

**Table 9-22**  
**LTE Band 5 (Cell) Measured  $P_{max}$  - 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         | 24.98                 | 24.91                | 24.91                | 0                            | 0        |
|                                      | 1       | 7         | 24.99                 | 24.95                | 24.92                |                              | 0        |
|                                      | 1       | 14        | 24.96                 | 24.94                | 24.93                |                              | 0        |
|                                      | 8       | 0         | 24.07                 | 24.01                | 23.99                | 0-1                          | 1        |
|                                      | 8       | 4         | 24.11                 | 24.08                | 24.05                |                              | 1        |
|                                      | 8       | 7         | 24.06                 | 24.09                | 24.05                |                              | 1        |
|                                      | 15      | 0         | 24.08                 | 24.13                | 24.00                |                              | 1        |
| 16QAM                                | 1       | 0         | 24.41                 | 24.38                | 24.17                | 0-1                          | 1        |
|                                      | 1       | 7         | 24.33                 | 24.39                | 24.19                |                              | 1        |
|                                      | 1       | 14        | 24.35                 | 24.40                | 24.18                |                              | 1        |
|                                      | 8       | 0         | 23.19                 | 23.15                | 23.03                | 0-2                          | 2        |
|                                      | 8       | 4         | 23.26                 | 23.24                | 23.14                |                              | 2        |
|                                      | 8       | 7         | 23.20                 | 23.22                | 23.09                |                              | 2        |
|                                      | 15      | 0         | 23.19                 | 23.23                | 23.00                |                              | 2        |
| 64QAM                                | 1       | 0         | 23.09                 | 23.26                | 22.71                | 0-2                          | 2        |
|                                      | 1       | 7         | 23.04                 | 23.30                | 22.86                |                              | 2        |
|                                      | 1       | 14        | 23.03                 | 23.31                | 22.75                |                              | 2        |
|                                      | 8       | 0         | 22.19                 | 22.07                | 22.05                | 0-3                          | 3        |
|                                      | 8       | 4         | 22.20                 | 22.14                | 22.18                |                              | 3        |
|                                      | 8       | 7         | 22.13                 | 22.12                | 22.14                |                              | 3        |
|                                      | 15      | 0         | 22.10                 | 22.16                | 22.16                |                              | 3        |

|                                                |                                                                                                                                                 |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: ZNFG900UM                              |  <b>PCTEST</b><br><small>Proud to be part of element</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004150063-01-R1.ZNF | <b>Test Dates:</b><br>04/27/20 – 06/25/20                                                                                                       | <b>DUT Type:</b><br>Portable Handset | Page 51 of 224                                                                        |                                        |

**Table 9-23**  
**LTE Band 5 (Cell) Measured  $P_{max}$  -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         | 25.05                 | 24.82                | 24.91                | 0                            | 0        |
|                                        | 1       | 2         | 25.08                 | 24.96                | 24.95                |                              | 0        |
|                                        | 1       | 5         | 25.03                 | 24.88                | 24.91                |                              | 0        |
|                                        | 3       | 0         | 24.98                 | 24.92                | 24.90                |                              | 0        |
|                                        | 3       | 2         | 24.99                 | 25.04                | 24.93                |                              | 0        |
|                                        | 3       | 3         | 24.93                 | 24.96                | 24.89                |                              | 0        |
|                                        | 6       | 0         | 24.01                 | 24.06                | 23.97                | 0-1                          | 1        |
| 16QAM                                  | 1       | 0         | 24.29                 | 24.30                | 24.11                | 0-1                          | 1        |
|                                        | 1       | 2         | 24.38                 | 24.37                | 24.15                |                              | 1        |
|                                        | 1       | 5         | 24.32                 | 24.35                | 24.08                |                              | 1        |
|                                        | 3       | 0         | 24.19                 | 24.03                | 24.15                |                              | 1        |
|                                        | 3       | 2         | 24.25                 | 24.12                | 24.19                |                              | 1        |
|                                        | 3       | 3         | 24.21                 | 24.05                | 24.14                |                              | 1        |
|                                        | 6       | 0         | 23.17                 | 23.08                | 22.98                | 0-2                          | 2        |
| 64QAM                                  | 1       | 0         | 23.44                 | 23.19                | 22.86                | 0-2                          | 2        |
|                                        | 1       | 2         | 23.49                 | 23.28                | 22.98                |                              | 2        |
|                                        | 1       | 5         | 23.42                 | 23.23                | 22.79                |                              | 2        |
|                                        | 3       | 0         | 23.20                 | 23.11                | 23.05                |                              | 2        |
|                                        | 3       | 2         | 23.24                 | 23.20                | 23.07                |                              | 2        |
|                                        | 3       | 3         | 23.19                 | 23.15                | 23.04                |                              | 2        |
|                                        | 6       | 0         | 22.01                 | 22.08                | 22.05                | 0-3                          | 3        |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 52 of 224                                                                        |                                 |

## 9.4.6

## LTE Band 66 (AWS)

**Table 9-24**  
**LTE Band 66 (AWS) Measured  $P_{max}$  - 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         | 25.12                  | 25.10                  | 25.36                  | 0                            | 0        |
|                                       | 1       | 50        | 25.26                  | 25.27                  | 25.27                  |                              | 0        |
|                                       | 1       | 99        | 25.20                  | 25.06                  | 25.28                  |                              | 0        |
|                                       | 50      | 0         | 24.34                  | 24.36                  | 24.40                  | 0-1                          | 1        |
|                                       | 50      | 25        | 24.39                  | 24.35                  | 24.38                  |                              | 1        |
|                                       | 50      | 50        | 24.35                  | 24.32                  | 24.37                  |                              | 1        |
|                                       | 100     | 0         | 24.39                  | 24.30                  | 24.37                  |                              | 1        |
| 16QAM                                 | 1       | 0         | 24.43                  | 24.37                  | 24.49                  | 0-1                          | 1        |
|                                       | 1       | 50        | 24.49                  | 24.50                  | 24.47                  |                              | 1        |
|                                       | 1       | 99        | 24.41                  | 24.33                  | 24.50                  |                              | 1        |
|                                       | 50      | 0         | 23.39                  | 23.40                  | 23.40                  | 0-2                          | 2        |
|                                       | 50      | 25        | 23.50                  | 23.39                  | 23.41                  |                              | 2        |
|                                       | 50      | 50        | 23.35                  | 23.32                  | 23.40                  |                              | 2        |
|                                       | 100     | 0         | 23.34                  | 23.34                  | 23.32                  |                              | 2        |
| 64QAM                                 | 1       | 0         | 23.21                  | 23.37                  | 23.48                  | 0-2                          | 2        |
|                                       | 1       | 50        | 23.49                  | 23.44                  | 23.17                  |                              | 2        |
|                                       | 1       | 99        | 23.27                  | 23.31                  | 23.33                  |                              | 2        |
|                                       | 50      | 0         | 22.34                  | 22.39                  | 22.43                  | 0-3                          | 3        |
|                                       | 50      | 25        | 22.44                  | 22.40                  | 22.47                  |                              | 3        |
|                                       | 50      | 50        | 22.40                  | 22.37                  | 22.43                  |                              | 3        |
|                                       | 100     | 0         | 22.36                  | 22.32                  | 22.37                  |                              | 3        |

**Table 9-25**  
**LTE Band 66 (AWS) Measured  $P_{max}$  - 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         | 25.08                  | 25.11                  | 25.16                  | 0                            | 0        |
|                                       | 1       | 36        | 25.22                  | 25.28                  | 25.19                  |                              | 0        |
|                                       | 1       | 74        | 25.02                  | 25.07                  | 25.09                  |                              | 0        |
|                                       | 36      | 0         | 24.33                  | 24.36                  | 24.40                  | 0-1                          | 1        |
|                                       | 36      | 18        | 24.44                  | 24.36                  | 24.48                  |                              | 1        |
|                                       | 36      | 37        | 24.34                  | 24.35                  | 24.43                  |                              | 1        |
|                                       | 75      | 0         | 24.33                  | 24.37                  | 24.34                  |                              | 1        |
| 16QAM                                 | 1       | 0         | 24.37                  | 24.31                  | 24.38                  | 0-1                          | 1        |
|                                       | 1       | 36        | 24.48                  | 24.38                  | 24.40                  |                              | 1        |
|                                       | 1       | 74        | 24.26                  | 24.24                  | 24.41                  |                              | 1        |
|                                       | 36      | 0         | 23.33                  | 23.41                  | 23.41                  | 0-2                          | 2        |
|                                       | 36      | 18        | 23.42                  | 23.45                  | 23.45                  |                              | 2        |
|                                       | 36      | 37        | 23.33                  | 23.43                  | 23.40                  |                              | 2        |
|                                       | 75      | 0         | 23.40                  | 23.44                  | 23.35                  |                              | 2        |
| 64QAM                                 | 1       | 0         | 23.25                  | 23.26                  | 23.41                  | 0-2                          | 2        |
|                                       | 1       | 36        | 23.49                  | 23.47                  | 23.48                  |                              | 2        |
|                                       | 1       | 74        | 23.35                  | 23.25                  | 23.29                  |                              | 2        |
|                                       | 36      | 0         | 22.42                  | 22.50                  | 22.44                  | 0-3                          | 3        |
|                                       | 36      | 18        | 22.50                  | 22.21                  | 22.42                  |                              | 3        |
|                                       | 36      | 37        | 22.38                  | 22.21                  | 22.42                  |                              | 3        |
|                                       | 75      | 0         | 22.41                  | 22.49                  | 22.38                  |                              | 3        |

|                                         |                                                                                                                                  |                               |                                                                                       |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset |                                                                                       | Page 53 of 224                  |

**Table 9-26**  
**LTE Band 66 (AWS) Measured  $P_{max}$  - 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         | 25.00                  | 25.07                  | 25.11                  | 0                            | 0        |
|                                       | 1       | 25        | 25.23                  | 25.29                  | 25.35                  |                              | 0        |
|                                       | 1       | 49        | 25.00                  | 25.07                  | 25.10                  |                              | 0        |
|                                       | 25      | 0         | 24.31                  | 24.36                  | 24.42                  | 0-1                          | 1        |
|                                       | 25      | 12        | 24.37                  | 24.38                  | 24.49                  |                              | 1        |
|                                       | 25      | 25        | 24.27                  | 24.34                  | 24.43                  |                              | 1        |
| 16QAM                                 | 50      | 0         | 24.33                  | 24.38                  | 24.37                  | 0-1                          | 1        |
|                                       | 1       | 0         | 24.22                  | 24.07                  | 24.28                  |                              | 1        |
|                                       | 1       | 25        | 24.48                  | 24.33                  | 24.46                  |                              | 1        |
|                                       | 1       | 49        | 24.27                  | 24.05                  | 24.28                  | 0-2                          | 1        |
|                                       | 25      | 0         | 23.37                  | 23.36                  | 23.40                  |                              | 2        |
|                                       | 25      | 12        | 23.41                  | 23.45                  | 23.47                  |                              | 2        |
| 64QAM                                 | 25      | 25        | 23.26                  | 23.33                  | 23.48                  | 0-2                          | 2        |
|                                       | 50      | 0         | 23.33                  | 23.42                  | 23.41                  |                              | 2        |
|                                       | 1       | 0         | 23.37                  | 23.20                  | 23.39                  | 0-2                          | 2        |
|                                       | 1       | 25        | 23.34                  | 23.46                  | 23.42                  |                              | 2        |
|                                       | 1       | 49        | 23.36                  | 23.39                  | 23.38                  |                              | 2        |
|                                       | 25      | 0         | 22.42                  | 22.46                  | 22.36                  | 0-3                          | 3        |
| 25                                    | 12      | 22.50     | 22.32                  | 22.44                  | 3                      |                              |          |
| 25                                    | 25      | 22.37     | 22.46                  | 22.37                  | 3                      |                              |          |
|                                       | 50      | 0         | 22.38                  | 22.47                  | 22.41                  |                              | 3        |

**Table 9-27**  
**LTE Band 66 (AWS) Measured  $P_{max}$  - 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         | 25.23                  | 25.25                  | 25.32                  | 0                            | 0        |
|                                      | 1       | 12        | 25.16                  | 25.24                  | 25.38                  |                              | 0        |
|                                      | 1       | 24        | 25.05                  | 25.19                  | 25.25                  |                              | 0        |
|                                      | 12      | 0         | 24.44                  | 24.37                  | 24.23                  | 0-1                          | 1        |
|                                      | 12      | 6         | 24.39                  | 24.40                  | 24.28                  |                              | 1        |
|                                      | 12      | 13        | 24.29                  | 24.38                  | 24.49                  |                              | 1        |
| 16QAM                                | 25      | 0         | 24.35                  | 24.39                  | 24.33                  | 0-1                          | 1        |
|                                      | 1       | 0         | 24.31                  | 24.18                  | 24.34                  |                              | 1        |
|                                      | 1       | 12        | 24.31                  | 24.25                  | 24.28                  |                              | 1        |
|                                      | 1       | 24        | 24.23                  | 24.17                  | 24.26                  | 0-2                          | 1        |
|                                      | 12      | 0         | 23.45                  | 23.50                  | 23.32                  |                              | 2        |
|                                      | 12      | 6         | 23.40                  | 23.50                  | 23.33                  |                              | 2        |
| 64QAM                                | 12      | 13        | 23.37                  | 23.47                  | 23.43                  | 0-2                          | 2        |
|                                      | 25      | 0         | 23.29                  | 23.45                  | 23.43                  |                              | 2        |
|                                      | 1       | 0         | 23.33                  | 23.43                  | 23.41                  |                              | 0-2      |
|                                      | 1       | 12        | 23.39                  | 23.48                  | 23.46                  | 2                            |          |
|                                      | 1       | 24        | 23.37                  | 23.42                  | 23.44                  | 2                            |          |
|                                      | 64QAM   | 12        | 0                      | 22.24                  | 22.50                  | 22.13                        | 0-3      |
| 12                                   |         | 6         | 22.34                  | 22.47                  | 22.17                  | 3                            |          |
| 12                                   |         | 13        | 22.28                  | 22.42                  | 22.03                  | 3                            |          |
| 25                                   |         | 0         | 22.25                  | 22.45                  | 22.10                  |                              | 3        |

|                                         |                                                                                                                                  |                               |  |                                                                                       |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset |  |                                                                                       | Page 54 of 224                  |

**Table 9-28**  
**LTE Band 66 (AWS) Measured  $P_{max}$  - 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         | 25.30                  | 25.31                  | 25.43                  | 0                            | 0        |
|                                      | 1       | 7         | 25.17                  | 25.26                  | 25.36                  |                              | 0        |
|                                      | 1       | 14        | 25.22                  | 25.30                  | 25.31                  |                              | 0        |
|                                      | 8       | 0         | 24.41                  | 24.41                  | 24.37                  | 0-1                          | 1        |
|                                      | 8       | 4         | 24.37                  | 24.47                  | 24.33                  |                              | 1        |
|                                      | 8       | 7         | 24.37                  | 24.36                  | 24.48                  |                              | 1        |
| 15                                   | 0       | 24.40     | 24.47                  | 24.48                  |                        | 1                            |          |
| 16QAM                                | 1       | 0         | 24.41                  | 24.48                  | 24.36                  | 0-1                          | 1        |
|                                      | 1       | 7         | 24.33                  | 24.46                  | 24.33                  |                              | 1        |
|                                      | 1       | 14        | 24.29                  | 24.50                  | 24.29                  |                              | 1        |
|                                      | 8       | 0         | 23.36                  | 23.42                  | 23.23                  | 0-2                          | 2        |
|                                      | 8       | 4         | 23.23                  | 23.47                  | 23.30                  |                              | 2        |
|                                      | 8       | 7         | 23.45                  | 23.48                  | 23.25                  |                              | 2        |
| 15                                   | 0       | 23.22     | 23.43                  | 23.45                  |                        | 2                            |          |
| 64QAM                                | 1       | 0         | 23.46                  | 23.44                  | 23.31                  | 0-2                          | 2        |
|                                      | 1       | 7         | 23.42                  | 23.41                  | 23.35                  |                              | 2        |
|                                      | 1       | 14        | 23.31                  | 23.49                  | 23.35                  |                              | 2        |
|                                      | 8       | 0         | 22.41                  | 22.14                  | 21.98                  | 0-3                          | 3        |
|                                      | 8       | 4         | 22.44                  | 22.24                  | 21.94                  |                              | 3        |
|                                      | 8       | 7         | 22.48                  | 22.12                  | 22.47                  |                              | 3        |
|                                      | 15      | 0         | 22.48                  | 22.50                  | 22.39                  |                              | 3        |

**Table 9-29**  
**LTE Band 66 (AWS) Measured  $P_{max}$  -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         | 25.21                  | 25.33                  | 25.33                  | 0                            | 0        |
|                                        | 1       | 2         | 25.27                  | 25.40                  | 25.33                  |                              | 0        |
|                                        | 1       | 5         | 25.15                  | 25.28                  | 25.25                  |                              | 0        |
|                                        | 3       | 0         | 25.24                  | 25.33                  | 25.39                  |                              | 0        |
|                                        | 3       | 2         | 25.27                  | 25.29                  | 25.35                  |                              | 0        |
|                                        | 3       | 3         | 25.25                  | 25.26                  | 25.31                  |                              | 0        |
|                                        | 6       | 0         | 24.32                  | 24.36                  | 24.46                  | 0-1                          | 1        |
| 16QAM                                  | 1       | 0         | 24.20                  | 24.23                  | 24.16                  | 0-1                          | 1        |
|                                        | 1       | 2         | 24.25                  | 24.22                  | 24.22                  |                              | 1        |
|                                        | 1       | 5         | 24.19                  | 24.12                  | 24.13                  |                              | 1        |
|                                        | 3       | 0         | 23.99                  | 24.12                  | 24.30                  |                              | 1        |
|                                        | 3       | 2         | 23.92                  | 24.11                  | 24.30                  |                              | 1        |
|                                        | 3       | 3         | 23.94                  | 24.05                  | 24.27                  | 1                            |          |
| 64QAM                                  | 6       | 0         | 23.36                  | 23.47                  | 23.32                  | 0-2                          | 2        |
|                                        | 1       | 0         | 23.32                  | 23.38                  | 23.35                  | 0-2                          | 2        |
|                                        | 1       | 2         | 23.36                  | 23.43                  | 23.38                  |                              | 2        |
|                                        | 1       | 5         | 23.32                  | 23.36                  | 23.32                  |                              | 2        |
|                                        | 3       | 0         | 23.41                  | 23.46                  | 23.20                  |                              | 2        |
|                                        | 3       | 2         | 23.33                  | 23.47                  | 23.20                  |                              | 2        |
|                                        | 3       | 3         | 23.44                  | 23.42                  | 23.15                  | 2                            |          |
|                                        | 6       | 0         | 22.31                  | 22.32                  | 22.36                  | 0-3                          | 3        |

|                                         |                                                                                                                                  |                               |                                                                                       |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset |                                                                                       | Page 55 of 224                  |

**Table 9-30**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 6 (Dual Display Cover 0° or 360°) or DSI = 7 (Dual Display Cover 180°) -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         | 23.55                  | 23.61                  | 23.99                  | 0                            | 0        |
|                                       | 1       | 50        | 23.55                  | 23.82                  | 23.83                  |                              | 0        |
|                                       | 1       | 99        | 23.57                  | 23.60                  | 23.88                  |                              | 0        |
|                                       | 50      | 0         | 23.76                  | 23.87                  | 23.93                  | 0-1                          | 0        |
|                                       | 50      | 25        | 23.90                  | 23.93                  | 23.94                  |                              | 0        |
|                                       | 50      | 50        | 23.79                  | 23.87                  | 23.92                  |                              | 0        |
|                                       | 100     | 0         | 23.84                  | 23.81                  | 23.89                  |                              | 0        |
| 16QAM                                 | 1       | 0         | 24.18                  | 24.16                  | 24.40                  | 0-1                          | 0        |
|                                       | 1       | 50        | 24.33                  | 24.40                  | 24.33                  |                              | 0        |
|                                       | 1       | 99        | 24.13                  | 24.23                  | 24.25                  |                              | 0        |
|                                       | 50      | 0         | 23.14                  | 23.22                  | 23.21                  | 0-2                          | 1        |
|                                       | 50      | 25        | 23.26                  | 23.26                  | 23.18                  |                              | 1        |
|                                       | 50      | 50        | 23.10                  | 23.22                  | 23.23                  |                              | 1        |
|                                       | 100     | 0         | 23.21                  | 23.18                  | 23.20                  |                              | 1        |
| 64QAM                                 | 1       | 0         | 22.80                  | 23.24                  | 23.49                  | 0-2                          | 1        |
|                                       | 1       | 50        | 23.45                  | 23.42                  | 23.44                  |                              | 1        |
|                                       | 1       | 99        | 23.29                  | 23.30                  | 23.04                  |                              | 1        |
|                                       | 50      | 0         | 22.20                  | 22.28                  | 22.28                  | 0-3                          | 2        |
|                                       | 50      | 25        | 22.30                  | 22.29                  | 22.30                  |                              | 2        |
|                                       | 50      | 50        | 22.21                  | 22.29                  | 22.25                  |                              | 2        |
|                                       | 100     | 0         | 22.18                  | 22.22                  | 22.24                  |                              | 2        |

**Table 9-31**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 6 (Dual Display Cover 0° or 360°) or DSI = 7 (Dual Display Cover 180°) -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         | 23.59                  | 23.55                  | 23.65                  | 0                            | 0        |   |
|                                       | 1       | 36        | 23.68                  | 23.67                  | 23.72                  |                              | 0        |   |
|                                       | 1       | 74        | 23.44                  | 23.45                  | 23.55                  |                              | 0        |   |
|                                       | 36      | 0         | 23.61                  | 23.74                  | 23.80                  | 0-1                          | 0        |   |
|                                       | 36      | 18        | 23.73                  | 23.76                  | 23.91                  |                              | 0        |   |
|                                       | 36      | 37        | 23.63                  | 23.76                  | 23.78                  |                              | 0        |   |
| 16QAM                                 | 75      | 0         | 23.64                  | 23.63                  | 23.74                  | 0-1                          | 0        |   |
|                                       | 1       | 0         | 23.60                  | 24.02                  | 23.74                  |                              | 0        |   |
|                                       | 1       | 36        | 23.75                  | 24.19                  | 23.83                  |                              | 0        |   |
|                                       | 1       | 74        | 23.56                  | 23.93                  | 23.69                  | 0-2                          | 0        |   |
|                                       | 36      | 0         | 23.07                  | 23.25                  | 23.30                  |                              | 1        |   |
|                                       | 36      | 18        | 23.20                  | 23.24                  | 23.38                  |                              | 1        |   |
|                                       | 36      | 37        | 23.08                  | 23.27                  | 23.26                  |                              | 1        |   |
| 64QAM                                 | 75      | 0         | 23.10                  | 23.20                  | 23.22                  | 0-2                          | 1        |   |
|                                       | 1       | 0         | 22.84                  | 22.70                  | 22.88                  |                              | 0-2      | 1 |
|                                       | 1       | 36        | 23.07                  | 22.76                  | 22.74                  |                              |          | 1 |
|                                       | 1       | 74        | 22.84                  | 22.87                  | 22.78                  | 0-3                          |          | 1 |
|                                       | 36      | 0         | 22.01                  | 21.95                  | 22.00                  |                              | 2        |   |
|                                       | 36      | 18        | 21.90                  | 21.95                  | 22.09                  |                              | 2        |   |
|                                       | 36      | 37        | 21.79                  | 21.94                  | 22.01                  |                              | 2        |   |
|                                       | 75      | 0         | 21.87                  | 21.88                  | 21.86                  | 2                            |          |   |

|                                         |                                                                                                                                  |                               |  |                                                                                       |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset |  | Page 56 of 224                                                                        |                                 |

**Table 9-32**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 6 (Dual Display Cover 0° or 360°) or DSI = 7 (Dual Display Cover 180°) -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         | 23.63                  | 23.77                  | 23.77                  | 0                            | 0        |
|                                       | 1       | 25        | 23.82                  | 24.04                  | 23.99                  |                              | 0        |
|                                       | 1       | 49        | 23.60                  | 23.82                  | 23.83                  |                              | 0        |
|                                       | 25      | 0         | 24.02                  | 24.11                  | 24.15                  | 0-1                          | 0        |
|                                       | 25      | 12        | 24.12                  | 24.14                  | 24.22                  |                              | 0        |
|                                       | 25      | 25        | 23.97                  | 24.10                  | 24.16                  |                              | 0        |
| 16QAM                                 | 50      | 0         | 24.06                  | 24.05                  | 24.12                  | 0                            |          |
|                                       | 1       | 0         | 23.62                  | 24.22                  | 23.69                  | 0-1                          | 0        |
|                                       | 1       | 25        | 23.79                  | 24.48                  | 24.01                  |                              | 0        |
|                                       | 1       | 49        | 23.55                  | 24.31                  | 23.71                  |                              | 0        |
|                                       | 25      | 0         | 23.06                  | 23.09                  | 23.22                  | 0-2                          | 1        |
|                                       | 25      | 12        | 23.13                  | 23.18                  | 23.25                  |                              | 1        |
| 25                                    | 25      | 23.07     | 23.10                  | 23.20                  | 1                      |                              |          |
| 64QAM                                 | 50      | 0         | 23.02                  | 23.06                  | 23.07                  | 1                            |          |
|                                       | 1       | 0         | 22.92                  | 22.58                  | 22.93                  | 0-2                          | 1        |
|                                       | 1       | 25        | 23.07                  | 22.94                  | 23.29                  |                              | 1        |
|                                       | 1       | 49        | 22.87                  | 22.71                  | 22.98                  |                              | 1        |
|                                       | 25      | 0         | 22.06                  | 22.07                  | 22.13                  | 0-3                          | 2        |
|                                       | 25      | 12        | 22.10                  | 22.17                  | 22.22                  |                              | 2        |
| 25                                    | 25      | 21.97     | 22.12                  | 22.17                  | 2                      |                              |          |
|                                       | 50      | 0         | 21.92                  | 22.00                  | 22.04                  | 2                            |          |

**Table 9-33**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 6 (Dual Display Cover 0° or 360°) or DSI = 7 (Dual Display Cover 180°) -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         | 23.69                  | 23.88                  | 23.97                  | 0                            | 0        |
|                                      | 1       | 12        | 23.66                  | 23.97                  | 23.96                  |                              | 0        |
|                                      | 1       | 24        | 23.62                  | 23.88                  | 23.88                  |                              | 0        |
|                                      | 12      | 0         | 23.93                  | 24.03                  | 24.09                  | 0-1                          | 0        |
|                                      | 12      | 6         | 23.93                  | 24.00                  | 24.10                  |                              | 0        |
|                                      | 12      | 13        | 23.80                  | 23.92                  | 24.03                  |                              | 0        |
| 16QAM                                | 25      | 0         | 23.90                  | 23.98                  | 24.09                  | 0-1                          | 0        |
|                                      | 1       | 0         | 23.98                  | 24.20                  | 24.14                  |                              | 0        |
|                                      | 1       | 12        | 23.92                  | 24.10                  | 24.08                  |                              | 0        |
|                                      | 1       | 24        | 23.87                  | 23.99                  | 24.05                  | 0-2                          | 0        |
|                                      | 12      | 0         | 23.17                  | 23.28                  | 23.38                  |                              | 1        |
|                                      | 12      | 6         | 23.17                  | 23.31                  | 23.37                  |                              | 1        |
| 64QAM                                | 12      | 13        | 23.08                  | 23.29                  | 23.28                  | 0-2                          | 1        |
|                                      | 25      | 0         | 23.09                  | 23.25                  | 23.27                  |                              | 1        |
|                                      | 1       | 0         | 23.26                  | 23.35                  | 23.08                  | 0-2                          | 1        |
|                                      | 1       | 12        | 23.24                  | 23.41                  | 23.01                  |                              | 1        |
|                                      | 1       | 24        | 23.16                  | 23.30                  | 23.04                  |                              | 1        |
|                                      | 64QAM   | 12        | 0                      | 21.97                  | 22.24                  | 22.41                        | 0-3      |
| 12                                   |         | 6         | 22.08                  | 22.22                  | 22.38                  | 2                            |          |
| 12                                   |         | 13        | 22.08                  | 22.19                  | 22.31                  | 2                            |          |
| 25                                   |         | 0         | 21.95                  | 22.16                  | 22.29                  |                              | 2        |

|                                         |                                                                                                                                  |                               |  |                                                                                       |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset |  | Page 57 of 224                                                                        |                                 |

**Table 9-34**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 6 (Dual Display Cover 0° or 360°) or DSI = 7 (Dual Display Cover 180°) -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         | 23.87                  | 23.90                  | 23.94                  | 0                            | 0        |
|                                      | 1       | 7         | 23.80                  | 23.90                  | 23.88                  |                              | 0        |
|                                      | 1       | 14        | 23.74                  | 23.86                  | 23.87                  |                              | 0        |
|                                      | 8       | 0         | 23.95                  | 23.97                  | 24.11                  | 0-1                          | 0        |
|                                      | 8       | 4         | 23.99                  | 24.05                  | 24.07                  |                              | 0        |
|                                      | 8       | 7         | 23.91                  | 24.02                  | 24.01                  |                              | 0        |
|                                      | 15      | 0         | 23.94                  | 24.04                  | 24.06                  |                              | 0        |
| 16QAM                                | 1       | 0         | 23.95                  | 24.35                  | 23.94                  | 0-1                          | 0        |
|                                      | 1       | 7         | 23.88                  | 24.37                  | 23.81                  |                              | 0        |
|                                      | 1       | 14        | 23.82                  | 24.31                  | 23.77                  |                              | 0        |
|                                      | 8       | 0         | 23.24                  | 23.34                  | 23.28                  | 0-2                          | 1        |
|                                      | 8       | 4         | 23.23                  | 23.42                  | 23.31                  |                              | 1        |
|                                      | 8       | 7         | 23.18                  | 23.33                  | 23.24                  |                              | 1        |
|                                      | 15      | 0         | 23.27                  | 23.28                  | 23.31                  |                              | 1        |
| 64QAM                                | 1       | 0         | 23.43                  | 23.03                  | 23.48                  | 0-2                          | 1        |
|                                      | 1       | 7         | 23.37                  | 23.06                  | 23.37                  |                              | 1        |
|                                      | 1       | 14        | 23.29                  | 22.99                  | 23.31                  |                              | 1        |
|                                      | 8       | 0         | 21.99                  | 22.17                  | 22.20                  |                              | 2        |
|                                      | 8       | 4         | 21.99                  | 22.28                  | 22.23                  | 0-3                          | 2        |
|                                      | 8       | 7         | 22.03                  | 22.15                  | 22.18                  |                              | 2        |
|                                      | 15      | 0         | 22.03                  | 22.24                  | 22.20                  |                              | 2        |

**Table 9-35**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 6 (Dual Display Cover 0° or 360°) or DSI = 7 (Dual Display Cover 180°) -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         | 23.89                  | 23.70                  | 23.81                  | 0                            | 0        |
|                                        | 1       | 2         | 23.87                  | 23.84                  | 23.82                  |                              | 0        |
|                                        | 1       | 5         | 23.81                  | 23.77                  | 23.71                  |                              | 0        |
|                                        | 3       | 0         | 23.77                  | 23.75                  | 23.89                  |                              | 0        |
|                                        | 3       | 2         | 23.74                  | 23.79                  | 23.89                  |                              | 0        |
|                                        | 3       | 3         | 23.68                  | 23.74                  | 23.83                  |                              | 0        |
|                                        | 6       | 0         | 23.83                  | 23.87                  | 23.90                  | 0-1                          | 0        |
| 16QAM                                  | 1       | 0         | 23.76                  | 24.35                  | 23.83                  | 0-1                          | 0        |
|                                        | 1       | 2         | 23.85                  | 24.45                  | 23.87                  |                              | 0        |
|                                        | 1       | 5         | 23.71                  | 24.36                  | 23.84                  |                              | 0        |
|                                        | 3       | 0         | 24.09                  | 24.24                  | 24.15                  |                              | 0        |
|                                        | 3       | 2         | 24.18                  | 24.39                  | 24.24                  |                              | 0        |
|                                        | 3       | 3         | 24.11                  | 24.33                  | 24.16                  |                              | 0        |
| 64QAM                                  | 6       | 0         | 23.17                  | 23.27                  | 23.31                  | 0-2                          | 1        |
|                                        | 1       | 0         | 22.88                  | 22.65                  | 22.87                  | 0-2                          | 1        |
|                                        | 1       | 2         | 22.93                  | 22.63                  | 22.89                  |                              | 1        |
|                                        | 1       | 5         | 22.74                  | 22.71                  | 22.84                  |                              | 1        |
|                                        | 3       | 0         | 22.96                  | 22.76                  | 22.79                  |                              | 1        |
|                                        | 3       | 2         | 22.97                  | 22.87                  | 22.83                  |                              | 1        |
|                                        | 3       | 3         | 22.87                  | 22.78                  | 22.77                  |                              | 1        |
|                                        | 6       | 0         | 21.66                  | 21.84                  | 22.00                  | 0-3                          | 2        |

|                                         |                                                                                                                                  |                               |  |                                                                                                 |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset |  | Page 58 of 224                                                                                  |                                 |

**Table 9-36**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 21.46                  | 21.45                  | 21.84                  | 0                            | 0        |
|                                       | 1       | 50        | 21.54                  | 21.67                  | 21.62                  |                              | 0        |
|                                       | 1       | 99        | 21.43                  | 21.39                  | 21.66                  |                              | 0        |
|                                       | 50      | 0         | 21.64                  | 21.72                  | 21.76                  | 0-1                          | 0        |
|                                       | 50      | 25        | 21.72                  | 21.74                  | 21.69                  |                              | 0        |
|                                       | 50      | 50        | 21.70                  | 21.73                  | 21.73                  |                              | 0        |
|                                       | 100     | 0         | 21.72                  | 21.70                  | 21.74                  |                              | 0        |
| 16QAM                                 | 1       | 0         | 21.47                  | 21.63                  | 22.11                  | 0-1                          | 0        |
|                                       | 1       | 50        | 21.91                  | 21.39                  | 21.96                  |                              | 0        |
|                                       | 1       | 99        | 21.75                  | 21.76                  | 21.99                  |                              | 0        |
|                                       | 50      | 0         | 21.82                  | 21.75                  | 21.73                  | 0-2                          | 0        |
|                                       | 50      | 25        | 21.81                  | 21.75                  | 21.83                  |                              | 0        |
|                                       | 50      | 50        | 21.69                  | 21.76                  | 21.74                  |                              | 0        |
|                                       | 100     | 0         | 21.55                  | 21.68                  | 21.65                  |                              | 0        |
| 64QAM                                 | 1       | 0         | 21.43                  | 21.51                  | 21.95                  | 0-2                          | 0        |
|                                       | 1       | 50        | 21.85                  | 21.88                  | 21.83                  |                              | 0        |
|                                       | 1       | 99        | 21.61                  | 21.72                  | 21.95                  |                              | 0        |
|                                       | 50      | 0         | 21.71                  | 21.74                  | 21.71                  | 0-3                          | 0        |
|                                       | 50      | 25        | 21.84                  | 21.77                  | 21.79                  |                              | 0        |
|                                       | 50      | 50        | 21.68                  | 21.74                  | 21.73                  |                              | 0        |
|                                       | 100     | 0         | 21.74                  | 21.62                  | 21.72                  |                              | 0        |

**Table 9-37**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 21.42                  | 21.41                  | 21.46                  | 0                            | 0        |
|                                       | 1       | 36        | 21.44                  | 21.48                  | 21.42                  |                              | 0        |
|                                       | 1       | 74        | 21.30                  | 21.32                  | 21.34                  |                              | 0        |
|                                       | 36      | 0         | 21.50                  | 21.55                  | 21.59                  | 0-1                          | 0        |
|                                       | 36      | 18        | 21.57                  | 21.56                  | 21.58                  |                              | 0        |
|                                       | 36      | 37        | 21.51                  | 21.56                  | 21.58                  |                              | 0        |
|                                       | 75      | 0         | 21.53                  | 21.50                  | 21.52                  |                              | 0        |
| 16QAM                                 | 1       | 0         | 21.92                  | 22.14                  | 22.05                  | 0-1                          | 0        |
|                                       | 1       | 36        | 21.98                  | 22.24                  | 22.07                  |                              | 0        |
|                                       | 1       | 74        | 21.83                  | 22.07                  | 21.86                  |                              | 0        |
|                                       | 36      | 0         | 21.62                  | 21.65                  | 21.65                  | 0-2                          | 0        |
|                                       | 36      | 18        | 21.64                  | 21.61                  | 21.66                  |                              | 0        |
|                                       | 36      | 37        | 21.61                  | 21.60                  | 21.64                  |                              | 0        |
|                                       | 75      | 0         | 21.59                  | 21.55                  | 21.56                  |                              | 0        |
| 64QAM                                 | 1       | 0         | 21.44                  | 21.85                  | 22.08                  | 0-2                          | 0        |
|                                       | 1       | 36        | 21.49                  | 21.96                  | 22.10                  |                              | 0        |
|                                       | 1       | 74        | 21.40                  | 21.87                  | 21.96                  |                              | 0        |
|                                       | 36      | 0         | 21.63                  | 21.68                  | 21.67                  | 0-3                          | 0        |
|                                       | 36      | 18        | 21.71                  | 21.66                  | 21.62                  |                              | 0        |
|                                       | 36      | 37        | 21.65                  | 21.65                  | 21.63                  |                              | 0        |
|                                       | 75      | 0         | 21.60                  | 21.55                  | 21.61                  |                              | 0        |

|                                         |                                                                                                                                                 |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset | Page 59 of 224                                                                        |                                 |

**Table 9-38**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 21.23                  | 21.16                  | 21.31                  | 0                            | 0        |
|                                       | 1       | 25        | 21.41                  | 21.39                  | 21.52                  |                              | 0        |
|                                       | 1       | 49        | 21.20                  | 21.19                  | 21.30                  |                              | 0        |
|                                       | 25      | 0         | 21.47                  | 21.43                  | 21.51                  | 0-1                          | 0        |
|                                       | 25      | 12        | 21.53                  | 21.48                  | 21.55                  |                              | 0        |
|                                       | 25      | 25        | 21.40                  | 21.42                  | 21.53                  |                              | 0        |
|                                       | 50      | 0         | 21.44                  | 21.38                  | 21.48                  |                              | 0        |
| 16QAM                                 | 1       | 0         | 22.02                  | 21.50                  | 21.87                  | 0-1                          | 0        |
|                                       | 1       | 25        | 22.20                  | 21.80                  | 22.17                  |                              | 0        |
|                                       | 1       | 49        | 21.90                  | 21.77                  | 21.85                  |                              | 0        |
|                                       | 25      | 0         | 21.53                  | 21.46                  | 21.48                  | 0-2                          | 0        |
|                                       | 25      | 12        | 21.59                  | 21.54                  | 21.56                  |                              | 0        |
|                                       | 25      | 25        | 21.46                  | 21.47                  | 21.49                  |                              | 0        |
|                                       | 50      | 0         | 21.44                  | 21.45                  | 21.45                  |                              | 0        |
| 64QAM                                 | 1       | 0         | 21.78                  | 21.67                  | 21.34                  | 0-2                          | 0        |
|                                       | 1       | 25        | 21.96                  | 21.66                  | 21.64                  |                              | 0        |
|                                       | 1       | 49        | 21.76                  | 21.70                  | 21.37                  |                              | 0        |
|                                       | 25      | 0         | 21.53                  | 21.45                  | 21.61                  | 0-3                          | 0        |
|                                       | 25      | 12        | 21.58                  | 21.52                  | 21.67                  |                              | 0        |
|                                       | 25      | 25        | 21.46                  | 21.48                  | 21.59                  |                              | 0        |
|                                       | 50      | 0         | 21.52                  | 21.46                  | 21.54                  |                              | 0        |

**Table 9-39**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 21.43                  | 21.42                  | 21.53                  | 0                            | 0        |
|                                      | 1       | 12        | 21.37                  | 21.41                  | 21.57                  |                              | 0        |
|                                      | 1       | 24        | 21.31                  | 21.40                  | 21.49                  |                              | 0        |
|                                      | 12      | 0         | 21.62                  | 21.59                  | 21.66                  | 0-1                          | 0        |
|                                      | 12      | 6         | 21.60                  | 21.56                  | 21.64                  |                              | 0        |
|                                      | 12      | 13        | 21.49                  | 21.55                  | 21.55                  |                              | 0        |
|                                      | 25      | 0         | 21.56                  | 21.53                  | 21.60                  |                              | 0        |
| 16QAM                                | 1       | 0         | 21.85                  | 21.78                  | 21.98                  | 0-1                          | 0        |
|                                      | 1       | 12        | 21.84                  | 21.81                  | 22.05                  |                              | 0        |
|                                      | 1       | 24        | 21.77                  | 21.76                  | 21.99                  |                              | 0        |
|                                      | 12      | 0         | 21.69                  | 21.69                  | 21.77                  | 0-2                          | 0        |
|                                      | 12      | 6         | 21.70                  | 21.63                  | 21.73                  |                              | 0        |
|                                      | 12      | 13        | 21.57                  | 21.65                  | 21.70                  |                              | 0        |
|                                      | 25      | 0         | 21.54                  | 21.59                  | 21.69                  |                              | 0        |
| 64QAM                                | 1       | 0         | 21.63                  | 21.96                  | 21.91                  | 0-2                          | 0        |
|                                      | 1       | 12        | 21.59                  | 21.99                  | 21.94                  |                              | 0        |
|                                      | 1       | 24        | 21.51                  | 21.98                  | 21.84                  |                              | 0        |
|                                      | 12      | 0         | 21.54                  | 21.67                  | 21.72                  | 0-3                          | 0        |
|                                      | 12      | 6         | 21.53                  | 21.70                  | 21.76                  |                              | 0        |
|                                      | 12      | 13        | 21.42                  | 21.65                  | 21.61                  |                              | 0        |
|                                      | 25      | 0         | 21.56                  | 21.58                  | 21.64                  |                              | 0        |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 60 of 224                                                                        |                                 |

**Table 9-40**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 21.55                  | 21.62                  | 21.66                  | 0                            | 0        |
|                                      | 1       | 7         | 21.46                  | 21.58                  | 21.53                  |                              | 0        |
|                                      | 1       | 14        | 21.43                  | 21.57                  | 21.51                  |                              | 0        |
|                                      | 8       | 0         | 21.65                  | 21.59                  | 21.67                  | 0-1                          | 0        |
|                                      | 8       | 4         | 21.58                  | 21.64                  | 21.66                  |                              | 0        |
|                                      | 8       | 7         | 21.54                  | 21.60                  | 21.59                  |                              | 0        |
|                                      | 15      | 0         | 21.59                  | 21.58                  | 21.66                  |                              | 0        |
| 16QAM                                | 1       | 0         | 21.84                  | 21.74                  | 21.97                  | 0-1                          | 0        |
|                                      | 1       | 7         | 21.76                  | 21.56                  | 21.71                  |                              | 0        |
|                                      | 1       | 14        | 21.71                  | 21.57                  | 21.70                  |                              | 0        |
|                                      | 8       | 0         | 21.66                  | 21.55                  | 21.68                  | 0-2                          | 0        |
|                                      | 8       | 4         | 21.68                  | 21.59                  | 21.70                  |                              | 0        |
|                                      | 8       | 7         | 21.60                  | 21.54                  | 21.65                  |                              | 0        |
|                                      | 15      | 0         | 21.66                  | 21.69                  | 21.72                  |                              | 0        |
| 64QAM                                | 1       | 0         | 22.03                  | 21.64                  | 22.05                  | 0-2                          | 0        |
|                                      | 1       | 7         | 21.90                  | 21.60                  | 22.00                  |                              | 0        |
|                                      | 1       | 14        | 21.91                  | 21.58                  | 21.97                  |                              | 0        |
|                                      | 8       | 0         | 21.68                  | 21.67                  | 21.72                  | 0-3                          | 0        |
|                                      | 8       | 4         | 21.62                  | 21.69                  | 21.66                  |                              | 0        |
|                                      | 8       | 7         | 21.57                  | 21.65                  | 21.63                  |                              | 0        |
|                                      | 15      | 0         | 21.71                  | 21.73                  | 21.64                  |                              | 0        |

**Table 9-41**  
**LTE Band 66 (AWS) Measured  $P_{limit}$  for DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 21.50                  | 21.50                  | 21.53                  | 0                            | 0        |
|                                        | 1       | 2         | 21.56                  | 21.54                  | 21.57                  |                              | 0        |
|                                        | 1       | 5         | 21.47                  | 21.47                  | 21.51                  |                              | 0        |
|                                        | 3       | 0         | 21.46                  | 21.50                  | 21.53                  |                              | 0        |
|                                        | 3       | 2         | 21.47                  | 21.53                  | 21.52                  |                              | 0        |
|                                        | 3       | 3         | 21.44                  | 21.47                  | 21.48                  |                              | 0        |
|                                        | 6       | 0         | 21.58                  | 21.58                  | 21.58                  | 0-1                          | 0        |
| 16QAM                                  | 1       | 0         | 21.87                  | 21.81                  | 22.07                  | 0-1                          | 0        |
|                                        | 1       | 2         | 21.94                  | 21.85                  | 22.14                  |                              | 0        |
|                                        | 1       | 5         | 21.80                  | 21.74                  | 21.91                  |                              | 0        |
|                                        | 3       | 0         | 21.68                  | 21.69                  | 21.65                  |                              | 0        |
|                                        | 3       | 2         | 21.66                  | 21.66                  | 21.67                  |                              | 0        |
|                                        | 3       | 3         | 21.61                  | 21.64                  | 21.62                  |                              | 0        |
|                                        | 6       | 0         | 21.59                  | 21.69                  | 21.59                  | 0-2                          | 0        |
| 64QAM                                  | 1       | 0         | 22.07                  | 21.94                  | 21.60                  | 0-2                          | 0        |
|                                        | 1       | 2         | 22.10                  | 21.98                  | 21.62                  |                              | 0        |
|                                        | 1       | 5         | 22.04                  | 21.91                  | 21.53                  |                              | 0        |
|                                        | 3       | 0         | 21.63                  | 21.62                  | 21.68                  |                              | 0        |
|                                        | 3       | 2         | 21.64                  | 21.62                  | 21.69                  |                              | 0        |
|                                        | 3       | 3         | 21.61                  | 21.60                  | 21.65                  |                              | 0        |
|                                        | 6       | 0         | 21.50                  | 21.61                  | 21.71                  | 0-3                          | 0        |

|                                         |                                                                                                                                                                                                              |                               |  |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |  | Page 61 of 224                                                                        |                                 |

**Table 9-42**  
**LTE Band 66 Ant 3 (AWS) Measured  $P_{max}$  - 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         | 17.16                  | 16.80                  | 17.13                  | 0                            | 0        |
|                                       | 1       | 50        | 17.10                  | 17.09                  | 16.98                  |                              | 0        |
|                                       | 1       | 99        | 16.95                  | 16.89                  | 17.15                  |                              | 0        |
|                                       | 50      | 0         | 17.10                  | 17.19                  | 17.12                  | 0-1                          | 0        |
|                                       | 50      | 25        | 17.27                  | 17.25                  | 17.24                  |                              | 0        |
|                                       | 50      | 50        | 17.16                  | 17.21                  | 17.20                  |                              | 0        |
|                                       | 100     | 0         | 17.15                  | 17.09                  | 17.14                  |                              | 0        |
| 16QAM                                 | 1       | 0         | 16.80                  | 16.88                  | 17.18                  | 0-1                          | 0        |
|                                       | 1       | 50        | 17.07                  | 17.14                  | 17.10                  |                              | 0        |
|                                       | 1       | 99        | 16.79                  | 16.90                  | 17.01                  |                              | 0        |
|                                       | 50      | 0         | 17.14                  | 17.19                  | 17.14                  | 0-2                          | 0        |
|                                       | 50      | 25        | 17.23                  | 17.24                  | 17.21                  |                              | 0        |
|                                       | 50      | 50        | 17.09                  | 17.20                  | 17.24                  |                              | 0        |
|                                       | 100     | 0         | 17.21                  | 17.15                  | 17.11                  |                              | 0        |
| 64QAM                                 | 1       | 0         | 16.43                  | 16.74                  | 17.15                  | 0-2                          | 0        |
|                                       | 1       | 50        | 17.14                  | 17.17                  | 17.22                  |                              | 0        |
|                                       | 1       | 99        | 16.76                  | 16.81                  | 16.73                  |                              | 0        |
|                                       | 50      | 0         | 17.12                  | 17.20                  | 17.16                  | 0-3                          | 0        |
|                                       | 50      | 25        | 17.27                  | 17.28                  | 17.24                  |                              | 0        |
|                                       | 50      | 50        | 17.17                  | 17.23                  | 17.22                  |                              | 0        |
|                                       | 100     | 0         | 17.21                  | 17.19                  | 17.16                  |                              | 0        |

**Table 9-43**  
**LTE Band 66 Ant 3 (AWS) Measured  $P_{max}$  - 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         | 17.09                  | 17.00                  | 16.95                  | 0                            | 0        |
|                                       | 1       | 36        | 17.10                  | 17.13                  | 16.98                  |                              | 0        |
|                                       | 1       | 74        | 16.86                  | 16.92                  | 17.09                  |                              | 0        |
|                                       | 36      | 0         | 17.17                  | 17.21                  | 17.18                  | 0-1                          | 0        |
|                                       | 36      | 18        | 17.25                  | 17.24                  | 17.33                  |                              | 0        |
|                                       | 36      | 37        | 17.18                  | 17.27                  | 17.27                  |                              | 0        |
|                                       | 75      | 0         | 17.19                  | 17.18                  | 17.22                  |                              | 0        |
| 16QAM                                 | 1       | 0         | 17.32                  | 17.01                  | 16.86                  | 0-1                          | 0        |
|                                       | 1       | 36        | 17.16                  | 17.23                  | 17.07                  |                              | 0        |
|                                       | 1       | 74        | 16.91                  | 16.96                  | 17.60                  |                              | 0        |
|                                       | 36      | 0         | 17.18                  | 17.27                  | 17.25                  | 0-2                          | 0        |
|                                       | 36      | 18        | 17.29                  | 17.24                  | 17.35                  |                              | 0        |
|                                       | 36      | 37        | 17.24                  | 17.28                  | 17.26                  |                              | 0        |
|                                       | 75      | 0         | 17.20                  | 17.18                  | 17.26                  |                              | 0        |
| 64QAM                                 | 1       | 0         | 16.73                  | 16.97                  | 17.31                  | 0-2                          | 0        |
|                                       | 1       | 36        | 17.15                  | 17.24                  | 17.27                  |                              | 0        |
|                                       | 1       | 74        | 16.97                  | 17.01                  | 16.88                  |                              | 0        |
|                                       | 36      | 0         | 17.23                  | 17.28                  | 17.30                  | 0-3                          | 0        |
|                                       | 36      | 18        | 17.25                  | 17.25                  | 17.34                  |                              | 0        |
|                                       | 36      | 37        | 17.26                  | 17.27                  | 17.33                  |                              | 0        |
|                                       | 75      | 0         | 17.23                  | 17.18                  | 17.23                  |                              | 0        |

|                                         |                                                                                                                                  |                               |                                                                                                 |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset | Page 62 of 224                                                                                  |                                 |

**Table 9-44**  
**LTE Band 66 Ant 3 (AWS) Measured  $P_{max}$  - 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         | 16.84                  | 16.75                  | 16.63                  | 0                            | 0        |
|                                       | 1       | 25        | 16.91                  | 16.99                  | 16.88                  |                              | 0        |
|                                       | 1       | 49        | 16.74                  | 16.80                  | 16.84                  |                              | 0        |
|                                       | 25      | 0         | 16.95                  | 16.94                  | 16.96                  | 0-1                          | 0        |
|                                       | 25      | 12        | 17.04                  | 17.06                  | 17.07                  |                              | 0        |
|                                       | 25      | 25        | 16.94                  | 17.03                  | 17.00                  |                              | 0        |
|                                       | 50      | 0         | 16.99                  | 16.92                  | 16.94                  |                              | 0        |
| 16QAM                                 | 1       | 0         | 16.58                  | 16.80                  | 17.05                  | 0-1                          | 0        |
|                                       | 1       | 25        | 17.23                  | 17.16                  | 17.26                  |                              | 0        |
|                                       | 1       | 49        | 16.84                  | 16.88                  | 16.94                  |                              | 0        |
|                                       | 25      | 0         | 17.09                  | 16.99                  | 17.07                  | 0-2                          | 0        |
|                                       | 25      | 12        | 17.07                  | 17.01                  | 17.08                  |                              | 0        |
|                                       | 25      | 25        | 17.06                  | 17.08                  | 17.07                  |                              | 0        |
|                                       | 50      | 0         | 16.94                  | 16.92                  | 16.95                  |                              | 0        |
| 64QAM                                 | 1       | 0         | 16.83                  | 16.84                  | 16.89                  | 0-2                          | 0        |
|                                       | 1       | 25        | 17.00                  | 17.07                  | 17.12                  |                              | 0        |
|                                       | 1       | 49        | 16.95                  | 16.89                  | 16.90                  |                              | 0        |
|                                       | 25      | 0         | 17.04                  | 16.94                  | 16.99                  | 0-3                          | 0        |
|                                       | 25      | 12        | 17.10                  | 17.08                  | 17.05                  |                              | 0        |
|                                       | 25      | 25        | 16.99                  | 17.06                  | 17.06                  |                              | 0        |
|                                       | 50      | 0         | 16.98                  | 16.97                  | 16.97                  |                              | 0        |

**Table 9-45**  
**LTE Band 66 Ant 3 (AWS) Measured  $P_{max}$  - 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         | 16.89                  | 16.92                  | 16.94                  | 0                            | 0        |
|                                      | 1       | 12        | 16.94                  | 16.97                  | 16.99                  |                              | 0        |
|                                      | 1       | 24        | 16.89                  | 16.84                  | 16.87                  |                              | 0        |
|                                      | 12      | 0         | 17.01                  | 17.04                  | 17.08                  | 0-1                          | 0        |
|                                      | 12      | 6         | 17.04                  | 17.05                  | 17.10                  |                              | 0        |
|                                      | 12      | 13        | 16.90                  | 17.08                  | 17.01                  |                              | 0        |
|                                      | 25      | 0         | 17.03                  | 17.02                  | 17.07                  |                              | 0        |
| 16QAM                                | 1       | 0         | 17.26                  | 17.11                  | 17.57                  | 0-1                          | 0        |
|                                      | 1       | 12        | 17.18                  | 17.17                  | 17.15                  |                              | 0        |
|                                      | 1       | 24        | 17.17                  | 17.10                  | 17.03                  |                              | 0        |
|                                      | 12      | 0         | 17.21                  | 17.13                  | 17.14                  | 0-2                          | 0        |
|                                      | 12      | 6         | 17.17                  | 17.15                  | 17.25                  |                              | 0        |
|                                      | 12      | 13        | 17.06                  | 17.08                  | 17.13                  |                              | 0        |
|                                      | 25      | 0         | 16.98                  | 17.02                  | 17.06                  |                              | 0        |
| 64QAM                                | 1       | 0         | 16.94                  | 16.99                  | 17.05                  | 0-2                          | 0        |
|                                      | 1       | 12        | 16.99                  | 17.01                  | 16.99                  |                              | 0        |
|                                      | 1       | 24        | 16.85                  | 16.94                  | 16.88                  |                              | 0        |
|                                      | 12      | 0         | 17.08                  | 17.09                  | 17.09                  | 0-3                          | 0        |
|                                      | 12      | 6         | 17.07                  | 17.01                  | 17.15                  |                              | 0        |
|                                      | 12      | 13        | 17.02                  | 17.13                  | 17.01                  |                              | 0        |
|                                      | 25      | 0         | 17.07                  | 17.04                  | 17.08                  |                              | 0        |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 63 of 224                                                                        |                                 |

**Table 9-46**  
**LTE Band 66 Ant 3 (AWS) Measured  $P_{max}$  - 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         | 16.99                  | 16.85                  | 17.04                  | 0                            | 0        |
|                                      | 1       | 7         | 16.97                  | 16.96                  | 16.97                  |                              | 0        |
|                                      | 1       | 14        | 16.87                  | 16.94                  | 16.86                  |                              | 0        |
|                                      | 8       | 0         | 17.05                  | 17.06                  | 17.17                  | 0-1                          | 0        |
|                                      | 8       | 4         | 17.07                  | 17.14                  | 17.14                  |                              | 0        |
|                                      | 8       | 7         | 17.02                  | 17.03                  | 17.06                  |                              | 0        |
|                                      | 15      | 0         | 17.04                  | 17.06                  | 17.08                  |                              | 0        |
| 16QAM                                | 1       | 0         | 17.32                  | 17.25                  | 17.33                  | 0-1                          | 0        |
|                                      | 1       | 7         | 17.24                  | 17.18                  | 17.20                  |                              | 0        |
|                                      | 1       | 14        | 17.15                  | 17.11                  | 17.19                  |                              | 0        |
|                                      | 8       | 0         | 16.96                  | 17.02                  | 17.04                  | 0-2                          | 0        |
|                                      | 8       | 4         | 16.98                  | 17.03                  | 16.99                  |                              | 0        |
|                                      | 8       | 7         | 16.94                  | 17.00                  | 17.01                  |                              | 0        |
|                                      | 15      | 0         | 17.09                  | 17.07                  | 17.16                  |                              | 0        |
| 64QAM                                | 1       | 0         | 16.97                  | 16.93                  | 17.04                  | 0-2                          | 0        |
|                                      | 1       | 7         | 16.96                  | 17.02                  | 16.93                  |                              | 0        |
|                                      | 1       | 14        | 17.00                  | 16.95                  | 16.99                  |                              | 0        |
|                                      | 8       | 0         | 17.07                  | 16.99                  | 17.02                  | 0-3                          | 0        |
|                                      | 8       | 4         | 17.04                  | 17.05                  | 17.02                  |                              | 0        |
|                                      | 8       | 7         | 16.95                  | 17.00                  | 17.01                  |                              | 0        |
|                                      | 15      | 0         | 17.07                  | 17.06                  | 17.16                  |                              | 0        |

**Table 9-47**  
**LTE Band 66 Ant 3 (AWS) Measured  $P_{max}$  -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         | 16.86                  | 16.90                  | 16.93                  | 0                            | 0        |
|                                        | 1       | 2         | 16.97                  | 17.01                  | 16.95                  |                              | 0        |
|                                        | 1       | 5         | 16.88                  | 16.81                  | 16.92                  |                              | 0        |
|                                        | 3       | 0         | 16.89                  | 17.00                  | 16.96                  |                              | 0        |
|                                        | 3       | 2         | 16.93                  | 16.97                  | 16.96                  |                              | 0        |
|                                        | 3       | 3         | 16.98                  | 17.06                  | 16.99                  |                              | 0        |
|                                        | 6       | 0         | 16.95                  | 17.08                  | 17.01                  | 0-1                          | 0        |
| 16QAM                                  | 1       | 0         | 17.21                  | 17.16                  | 17.27                  | 0-1                          | 0        |
|                                        | 1       | 2         | 17.21                  | 17.12                  | 17.22                  |                              | 0        |
|                                        | 1       | 5         | 17.16                  | 17.10                  | 17.10                  |                              | 0        |
|                                        | 3       | 0         | 17.04                  | 17.10                  | 16.97                  |                              | 0        |
|                                        | 3       | 2         | 17.05                  | 17.07                  | 17.04                  |                              | 0        |
|                                        | 3       | 3         | 16.90                  | 16.93                  | 16.95                  |                              | 0        |
|                                        | 6       | 0         | 17.09                  | 17.10                  | 17.04                  | 0-2                          | 0        |
| 64QAM                                  | 1       | 0         | 16.91                  | 17.00                  | 16.96                  | 0-2                          | 0        |
|                                        | 1       | 2         | 17.00                  | 17.14                  | 17.11                  |                              | 0        |
|                                        | 1       | 5         | 16.89                  | 16.91                  | 16.86                  |                              | 0        |
|                                        | 3       | 0         | 17.04                  | 17.15                  | 17.08                  |                              | 0        |
|                                        | 3       | 2         | 17.03                  | 17.11                  | 17.11                  |                              | 0        |
|                                        | 3       | 3         | 16.99                  | 17.05                  | 17.10                  |                              | 0        |
|                                        | 6       | 0         | 17.06                  | 17.09                  | 17.04                  | 0-3                          | 0        |

|                                         |                                                                                                                                  |                               |                                                                                                 |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset | Page 64 of 224                                                                                  |                                 |

## 9.4.7

## LTE Band 2 (PCS)

Table 9-48  
LTE Band 2 (PCS) Ant 3 Measured  $P_{max}$  - 20 MHz Bandwidth

| LTE Band 2 (PCS)<br>20 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|--------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                           | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                      |         |           | 18700<br>(1860.0 MHz) | 18900<br>(1880.0 MHz) | 19100<br>(1900.0 MHz) |                              |          |
|                                      |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                 | 1       | 0         | 17.47                 | 17.13                 | 16.87                 | 0                            | 0        |
|                                      | 1       | 50        | 17.31                 | 17.03                 | 16.88                 |                              | 0        |
|                                      | 1       | 99        | 17.25                 | 16.91                 | 17.13                 |                              | 0        |
|                                      | 50      | 0         | 17.36                 | 17.27                 | 17.06                 | 0-1                          | 0        |
|                                      | 50      | 25        | 17.53                 | 17.33                 | 17.19                 |                              | 0        |
|                                      | 50      | 50        | 17.52                 | 17.26                 | 17.13                 |                              | 0        |
|                                      | 100     | 0         | 17.46                 | 17.19                 | 17.09                 |                              | 0        |
| 16QAM                                | 1       | 0         | 17.54                 | 17.18                 | 16.98                 | 0-1                          | 0        |
|                                      | 1       | 50        | 17.35                 | 17.33                 | 16.86                 |                              | 0        |
|                                      | 1       | 99        | 17.26                 | 17.02                 | 17.42                 |                              | 0        |
|                                      | 50      | 0         | 17.35                 | 17.22                 | 17.06                 | 0-2                          | 0        |
|                                      | 50      | 25        | 17.59                 | 17.31                 | 17.20                 |                              | 0        |
|                                      | 50      | 50        | 17.52                 | 17.24                 | 17.17                 |                              | 0        |
|                                      | 100     | 0         | 17.49                 | 17.26                 | 17.13                 |                              | 0        |
| 64QAM                                | 1       | 0         | 17.38                 | 17.39                 | 17.04                 | 0-2                          | 0        |
|                                      | 1       | 50        | 17.52                 | 17.34                 | 17.13                 |                              | 0        |
|                                      | 1       | 99        | 17.40                 | 17.15                 | 16.97                 |                              | 0        |
|                                      | 50      | 0         | 17.41                 | 17.32                 | 17.08                 | 0-3                          | 0        |
|                                      | 50      | 25        | 17.60                 | 17.42                 | 17.23                 |                              | 0        |
|                                      | 50      | 50        | 17.55                 | 17.33                 | 17.22                 |                              | 0        |
|                                      | 100     | 0         | 17.43                 | 17.25                 | 17.08                 |                              | 0        |

Table 9-49  
LTE Band 2 (PCS) Ant 3 Measured  $P_{max}$  - 15 MHz Bandwidth

| LTE Band 2 (PCS)<br>15 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|--------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                           | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                      |         |           | 18675<br>(1857.5 MHz) | 18900<br>(1880.0 MHz) | 19125<br>(1902.5 MHz) |                              |          |
|                                      |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                 | 1       | 0         | 17.24                 | 17.21                 | 17.08                 | 0                            | 0        |
|                                      | 1       | 36        | 17.44                 | 17.12                 | 17.06                 |                              | 0        |
|                                      | 1       | 74        | 17.38                 | 17.01                 | 17.15                 |                              | 0        |
|                                      | 36      | 0         | 17.43                 | 16.96                 | 17.08                 | 0-1                          | 0        |
|                                      | 36      | 18        | 17.54                 | 16.99                 | 17.16                 |                              | 0        |
|                                      | 36      | 37        | 17.49                 | 16.97                 | 17.26                 |                              | 0        |
|                                      | 75      | 0         | 17.43                 | 16.95                 | 17.12                 |                              | 0        |
| 16QAM                                | 1       | 0         | 17.60                 | 17.23                 | 17.25                 | 0-1                          | 0        |
|                                      | 1       | 36        | 17.68                 | 17.24                 | 17.38                 |                              | 0        |
|                                      | 1       | 74        | 17.56                 | 17.13                 | 17.51                 |                              | 0        |
|                                      | 36      | 0         | 17.47                 | 16.94                 | 17.09                 | 0-2                          | 0        |
|                                      | 36      | 18        | 17.52                 | 16.96                 | 17.22                 |                              | 0        |
|                                      | 36      | 37        | 17.48                 | 16.91                 | 17.23                 |                              | 0        |
|                                      | 75      | 0         | 17.55                 | 16.96                 | 17.18                 |                              | 0        |
| 64QAM                                | 1       | 0         | 17.20                 | 17.07                 | 17.11                 | 0-2                          | 0        |
|                                      | 1       | 36        | 17.47                 | 17.08                 | 17.12                 |                              | 0        |
|                                      | 1       | 74        | 17.40                 | 17.25                 | 17.03                 |                              | 0        |
|                                      | 36      | 0         | 17.45                 | 17.18                 | 17.01                 | 0-3                          | 0        |
|                                      | 36      | 18        | 17.51                 | 17.21                 | 17.11                 |                              | 0        |
|                                      | 36      | 37        | 17.48                 | 17.20                 | 17.23                 |                              | 0        |
|                                      | 75      | 0         | 17.54                 | 17.27                 | 17.16                 |                              | 0        |

|                                         |                                                                                                                                  |                               |                                                                                       |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset |                                                                                       | Page 65 of 224                  |

**Table 9-50**  
**LTE Band 2 (PCS) Ant 3 Measured  $P_{max}$  - 10 MHz Bandwidth**

| LTE Band 2 (PCS)<br>10 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|--------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                           | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                      |         |           | 18650<br>(1855.0 MHz) | 18900<br>(1880.0 MHz) | 19150<br>(1905.0 MHz) |                              |          |
|                                      |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                 | 1       | 0         | 16.97                 | 16.94                 | 16.63                 | 0                            | 0        |
|                                      | 1       | 25        | 17.30                 | 17.16                 | 16.71                 |                              | 0        |
|                                      | 1       | 49        | 17.01                 | 16.91                 | 16.72                 |                              | 0        |
|                                      | 25      | 0         | 17.28                 | 17.09                 | 16.62                 | 0-1                          | 0        |
|                                      | 25      | 12        | 17.44                 | 17.15                 | 16.77                 |                              | 0        |
|                                      | 25      | 25        | 17.28                 | 17.00                 | 16.68                 |                              | 0        |
|                                      | 50      | 0         | 17.28                 | 17.03                 | 16.62                 |                              | 0        |
| 16QAM                                | 1       | 0         | 17.13                 | 17.04                 | 16.53                 | 0-1                          | 0        |
|                                      | 1       | 25        | 17.55                 | 17.40                 | 16.70                 |                              | 0        |
|                                      | 1       | 49        | 17.20                 | 17.07                 | 16.77                 |                              | 0        |
|                                      | 25      | 0         | 17.28                 | 17.09                 | 16.65                 | 0-2                          | 0        |
|                                      | 25      | 12        | 17.37                 | 17.14                 | 16.77                 |                              | 0        |
|                                      | 25      | 25        | 17.34                 | 17.02                 | 16.70                 |                              | 0        |
|                                      | 50      | 0         | 17.25                 | 16.96                 | 16.67                 |                              | 0        |
| 64QAM                                | 1       | 0         | 17.18                 | 16.92                 | 16.66                 | 0-2                          | 0        |
|                                      | 1       | 25        | 17.48                 | 17.29                 | 16.62                 |                              | 0        |
|                                      | 1       | 49        | 17.29                 | 16.90                 | 16.71                 |                              | 0        |
|                                      | 25      | 0         | 17.33                 | 17.12                 | 16.72                 | 0-3                          | 0        |
|                                      | 25      | 12        | 17.44                 | 17.26                 | 16.92                 |                              | 0        |
|                                      | 25      | 25        | 17.28                 | 17.03                 | 16.81                 |                              | 0        |
|                                      | 50      | 0         | 17.30                 | 17.03                 | 16.72                 |                              | 0        |

**Table 9-51**  
**LTE Band 2 (PCS) Ant 3 Measured  $P_{max}$  - 5 MHz Bandwidth**

| LTE Band 2 (PCS)<br>5 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|-------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                          | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                     |         |           | 18625<br>(1852.5 MHz) | 18900<br>(1880.0 MHz) | 19175<br>(1907.5 MHz) |                              |          |
|                                     |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                | 1       | 0         | 16.91                 | 16.77                 | 16.53                 | 0                            | 0        |
|                                     | 1       | 12        | 17.02                 | 16.88                 | 16.66                 |                              | 0        |
|                                     | 1       | 24        | 16.88                 | 16.64                 | 16.65                 |                              | 0        |
|                                     | 12      | 0         | 17.14                 | 16.90                 | 16.78                 | 0-1                          | 0        |
|                                     | 12      | 6         | 17.13                 | 16.88                 | 16.84                 |                              | 0        |
|                                     | 12      | 13        | 17.07                 | 16.75                 | 16.70                 |                              | 0        |
|                                     | 25      | 0         | 17.06                 | 16.83                 | 16.75                 |                              | 0        |
| 16QAM                               | 1       | 0         | 17.03                 | 16.75                 | 16.68                 | 0-1                          | 0        |
|                                     | 1       | 12        | 17.04                 | 16.88                 | 16.79                 |                              | 0        |
|                                     | 1       | 24        | 17.00                 | 16.76                 | 16.76                 |                              | 0        |
|                                     | 12      | 0         | 17.14                 | 16.95                 | 16.84                 | 0-2                          | 0        |
|                                     | 12      | 6         | 17.23                 | 17.02                 | 16.90                 |                              | 0        |
|                                     | 12      | 13        | 17.17                 | 16.91                 | 16.87                 |                              | 0        |
|                                     | 25      | 0         | 17.04                 | 16.83                 | 16.74                 |                              | 0        |
| 64QAM                               | 1       | 0         | 16.96                 | 16.75                 | 16.65                 | 0-2                          | 0        |
|                                     | 1       | 12        | 16.99                 | 16.89                 | 16.72                 |                              | 0        |
|                                     | 1       | 24        | 16.94                 | 16.62                 | 16.69                 |                              | 0        |
|                                     | 12      | 0         | 17.13                 | 16.90                 | 16.76                 | 0-3                          | 0        |
|                                     | 12      | 6         | 17.18                 | 16.86                 | 16.85                 |                              | 0        |
|                                     | 12      | 13        | 17.02                 | 16.84                 | 16.82                 |                              | 0        |
|                                     | 25      | 0         | 17.20                 | 16.96                 | 16.90                 |                              | 0        |

|                                         |                                                                                                                                  |                               |                                                                                                 |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset | Page 66 of 224                                                                                  |                                 |

**Table 9-52**  
**LTE Band 2 (PCS) Ant 3 Measured  $P_{max}$  - 3 MHz Bandwidth**

| LTE Band 2 (PCS)<br>3 MHz Bandwidth |         |           |                       |                       |                       |                              |          |
|-------------------------------------|---------|-----------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Modulation                          | RB Size | RB Offset | Low Channel           | Mid Channel           | High Channel          | MPR Allowed per<br>3GPP [dB] | MPR [dB] |
|                                     |         |           | 18615<br>(1851.5 MHz) | 18900<br>(1880.0 MHz) | 19185<br>(1908.5 MHz) |                              |          |
|                                     |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                | 1       | 0         | 16.97                 | 16.77                 | 16.69                 | 0                            | 0        |
|                                     | 1       | 7         | 17.01                 | 16.84                 | 16.72                 |                              | 0        |
|                                     | 1       | 14        | 17.00                 | 16.75                 | 16.78                 |                              | 0        |
|                                     | 8       | 0         | 17.12                 | 16.91                 | 16.81                 | 0-1                          | 0        |
|                                     | 8       | 4         | 17.18                 | 16.96                 | 16.85                 |                              | 0        |
|                                     | 8       | 7         | 16.99                 | 16.80                 | 16.86                 |                              | 0        |
| 16QAM                               | 15      | 0         | 17.13                 | 16.91                 | 16.85                 |                              | 0        |
|                                     | 1       | 0         | 17.12                 | 16.85                 | 16.80                 | 0-1                          | 0        |
|                                     | 1       | 7         | 17.04                 | 16.92                 | 16.82                 |                              | 0        |
|                                     | 1       | 14        | 17.05                 | 16.80                 | 16.86                 |                              | 0        |
|                                     | 8       | 0         | 17.10                 | 16.89                 | 16.84                 | 0-2                          | 0        |
|                                     | 8       | 4         | 17.06                 | 16.97                 | 16.85                 |                              | 0        |
| 8                                   | 7       | 17.08     | 16.79                 | 16.80                 | 0                     |                              |          |
| 64QAM                               | 15      | 0         | 17.09                 | 16.94                 | 16.89                 |                              | 0        |
|                                     | 1       | 0         | 17.07                 | 16.85                 | 16.72                 | 0-2                          | 0        |
|                                     | 1       | 7         | 16.99                 | 16.86                 | 16.73                 |                              | 0        |
|                                     | 1       | 14        | 17.07                 | 16.67                 | 16.70                 |                              | 0        |
|                                     | 8       | 0         | 17.12                 | 16.90                 | 16.88                 | 0-3                          | 0        |
|                                     | 8       | 4         | 17.13                 | 16.92                 | 16.87                 |                              | 0        |
| 8                                   | 7       | 17.02     | 16.83                 | 16.81                 | 0                     |                              |          |
|                                     | 15      | 0         | 17.14                 | 16.92                 | 16.90                 |                              | 0        |

**Table 9-53**  
**LTE Band 2 (PCS) Ant 3 Measured  $P_{max}$  - 1.4 MHz Bandwidth**

| LTE Band 2 (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] |
|                                       |         |           | 18607<br>(1850.7 MHz) | 18900<br>(1880.0 MHz) | 19193<br>(1909.3 MHz) |                              |          |
|                                       |         |           | Conducted Power [dBm] |                       |                       |                              |          |
| QPSK                                  | 1       | 0         | 17.01                 | 16.83                 | 16.66                 | 0                            | 0        |
|                                       | 1       | 2         | 16.99                 | 16.84                 | 16.72                 |                              | 0        |
|                                       | 1       | 5         | 16.92                 | 16.81                 | 16.67                 |                              | 0        |
|                                       | 3       | 0         | 17.05                 | 16.84                 | 16.74                 |                              | 0        |
|                                       | 3       | 2         | 17.02                 | 16.88                 | 16.73                 |                              | 0        |
|                                       | 3       | 3         | 17.05                 | 16.87                 | 16.69                 |                              | 0        |
|                                       | 6       | 0         | 16.98                 | 16.86                 | 16.78                 | 0-1                          | 0        |
| 16QAM                                 | 1       | 0         | 17.08                 | 16.90                 | 16.80                 | 0-1                          | 0        |
|                                       | 1       | 2         | 17.12                 | 16.92                 | 16.87                 |                              | 0        |
|                                       | 1       | 5         | 17.03                 | 16.79                 | 16.73                 |                              | 0        |
|                                       | 3       | 0         | 17.30                 | 17.13                 | 16.99                 |                              | 0        |
|                                       | 3       | 2         | 17.35                 | 17.14                 | 17.12                 |                              | 0        |
|                                       | 3       | 3         | 17.22                 | 17.06                 | 17.00                 |                              | 0        |
|                                       | 6       | 0         | 17.01                 | 16.89                 | 16.74                 | 0-2                          | 0        |
| 64QAM                                 | 1       | 0         | 17.00                 | 16.78                 | 16.68                 | 0-2                          | 0        |
|                                       | 1       | 2         | 17.01                 | 16.80                 | 16.76                 |                              | 0        |
|                                       | 1       | 5         | 16.97                 | 16.71                 | 16.65                 |                              | 0        |
|                                       | 3       | 0         | 17.04                 | 16.87                 | 16.81                 |                              | 0        |
|                                       | 3       | 2         | 17.09                 | 16.92                 | 16.86                 |                              | 0        |
|                                       | 3       | 3         | 17.04                 | 16.84                 | 16.79                 |                              | 0        |
|                                       | 6       | 0         | 17.03                 | 16.86                 | 16.74                 | 0-3                          | 0        |

|                                         |                                                                                                                                  |                               |                                                                                       |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset |                                                                                       | Page 67 of 224                  |

## 9.4.8

## LTE Band 25 (PCS)

Table 9-54  
LTE Band 25 (PCS) Measured  $P_{max}$  - 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         | 24.63                 | 24.86                 | 24.83                 | 0                            | 0        |
|                                       | 1       | 50        | 24.61                 | 24.88                 | 24.85                 |                              | 0        |
|                                       | 1       | 99        | 24.64                 | 24.91                 | 24.86                 |                              | 0        |
|                                       | 50      | 0         | 23.82                 | 23.89                 | 23.91                 | 0-1                          | 1        |
|                                       | 50      | 25        | 23.92                 | 23.90                 | 23.98                 |                              | 1        |
|                                       | 50      | 50        | 23.92                 | 23.99                 | 23.94                 |                              | 1        |
|                                       | 100     | 0         | 23.80                 | 23.83                 | 23.85                 |                              | 1        |
| 16QAM                                 | 1       | 0         | 24.31                 | 24.43                 | 24.30                 | 0-1                          | 1        |
|                                       | 1       | 50        | 24.33                 | 24.41                 | 24.27                 |                              | 1        |
|                                       | 1       | 99        | 24.34                 | 24.47                 | 24.29                 |                              | 1        |
|                                       | 50      | 0         | 22.87                 | 22.92                 | 22.89                 | 0-2                          | 2        |
|                                       | 50      | 25        | 22.97                 | 22.91                 | 22.97                 |                              | 2        |
|                                       | 50      | 50        | 22.95                 | 23.01                 | 22.93                 |                              | 2        |
|                                       | 100     | 0         | 22.84                 | 22.85                 | 22.87                 |                              | 2        |
| 64QAM                                 | 1       | 0         | 23.32                 | 23.20                 | 23.10                 | 0-2                          | 2        |
|                                       | 1       | 50        | 23.48                 | 23.25                 | 23.11                 |                              | 2        |
|                                       | 1       | 99        | 23.47                 | 23.26                 | 23.19                 |                              | 2        |
|                                       | 50      | 0         | 21.91                 | 22.02                 | 21.95                 | 0-3                          | 3        |
|                                       | 50      | 25        | 21.95                 | 22.01                 | 22.01                 |                              | 3        |
|                                       | 50      | 50        | 21.92                 | 22.04                 | 21.99                 |                              | 3        |
|                                       | 100     | 0         | 21.84                 | 21.88                 | 21.90                 |                              | 3        |

Table 9-55  
LTE Band 25 (PCS) Measured  $P_{max}$  - 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         | 24.62                 | 24.69                 | 24.55                 | 0                            | 0        |
|                                       | 1       | 36        | 24.71                 | 24.77                 | 24.58                 |                              | 0        |
|                                       | 1       | 74        | 24.68                 | 24.68                 | 24.51                 |                              | 0        |
|                                       | 36      | 0         | 23.70                 | 23.71                 | 23.75                 | 0-1                          | 1        |
|                                       | 36      | 18        | 23.89                 | 23.82                 | 23.85                 |                              | 1        |
|                                       | 36      | 37        | 23.87                 | 23.87                 | 23.92                 |                              | 1        |
|                                       | 75      | 0         | 23.78                 | 23.71                 | 23.76                 |                              | 1        |
| 16QAM                                 | 1       | 0         | 24.19                 | 24.21                 | 24.27                 | 0-1                          | 1        |
|                                       | 1       | 36        | 24.44                 | 24.22                 | 24.31                 |                              | 1        |
|                                       | 1       | 74        | 24.30                 | 24.18                 | 24.22                 |                              | 1        |
|                                       | 36      | 0         | 22.70                 | 22.76                 | 22.77                 | 0-2                          | 2        |
|                                       | 36      | 18        | 22.84                 | 22.89                 | 22.89                 |                              | 2        |
|                                       | 36      | 37        | 22.81                 | 22.91                 | 22.93                 |                              | 2        |
|                                       | 75      | 0         | 22.81                 | 22.77                 | 22.78                 |                              | 2        |
| 64QAM                                 | 1       | 0         | 23.09                 | 23.36                 | 23.21                 | 0-2                          | 2        |
|                                       | 1       | 36        | 23.41                 | 23.39                 | 23.31                 |                              | 2        |
|                                       | 1       | 74        | 23.27                 | 23.34                 | 23.19                 |                              | 2        |
|                                       | 36      | 0         | 21.75                 | 21.85                 | 21.77                 | 0-3                          | 3        |
|                                       | 36      | 18        | 21.95                 | 21.98                 | 21.88                 |                              | 3        |
|                                       | 36      | 37        | 21.89                 | 22.01                 | 21.94                 |                              | 3        |
|                                       | 75      | 0         | 21.81                 | 21.82                 | 21.79                 |                              | 3        |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 68 of 224                  |

**Table 9-56**  
**LTE Band 25 (PCS) Measured  $P_{max}$  - 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         | 24.49                 | 24.50                 | 24.67                 | 0                            | 0        |
|                                       | 1       | 25        | 24.73                 | 24.70                 | 24.71                 |                              | 0        |
|                                       | 1       | 49        | 24.50                 | 24.51                 | 24.69                 |                              | 0        |
|                                       | 25      | 0         | 23.82                 | 23.78                 | 23.71                 | 0-1                          | 1        |
|                                       | 25      | 12        | 23.92                 | 23.87                 | 23.83                 |                              | 1        |
|                                       | 25      | 25        | 23.85                 | 23.87                 | 23.83                 |                              | 1        |
| 16QAM                                 | 50      | 0         | 23.85                 | 23.80                 | 23.79                 |                              | 1        |
|                                       | 1       | 0         | 24.26                 | 23.98                 | 24.35                 | 0-1                          | 1        |
|                                       | 1       | 25        | 24.48                 | 24.27                 | 24.41                 |                              | 1        |
|                                       | 1       | 49        | 24.25                 | 24.03                 | 24.42                 |                              | 1        |
|                                       | 25      | 0         | 22.87                 | 22.80                 | 22.72                 | 0-2                          | 2        |
|                                       | 25      | 12        | 22.96                 | 22.89                 | 22.81                 |                              | 2        |
| 25                                    | 25      | 22.87     | 22.90                 | 22.85                 | 2                     |                              |          |
| 64QAM                                 | 50      | 0         | 22.87                 | 22.83                 | 22.78                 |                              | 2        |
|                                       | 1       | 0         | 23.30                 | 23.09                 | 23.17                 | 0-2                          | 2        |
|                                       | 1       | 25        | 23.44                 | 23.41                 | 23.16                 |                              | 2        |
|                                       | 1       | 49        | 23.24                 | 23.17                 | 23.27                 |                              | 2        |
|                                       | 25      | 0         | 21.93                 | 21.91                 | 21.85                 | 0-3                          | 3        |
|                                       | 25      | 12        | 21.96                 | 21.98                 | 22.02                 |                              | 3        |
| 25                                    | 25      | 21.93     | 22.00                 | 21.98                 | 3                     |                              |          |
|                                       | 50      | 0         | 21.93                 | 21.88                 | 21.77                 |                              | 3        |

**Table 9-57**  
**LTE Band 25 (PCS) Measured  $P_{max}$  - 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         | 24.66                 | 24.62                 | 24.66                 | 0                            | 0        |
|                                      | 1       | 12        | 24.69                 | 24.70                 | 24.60                 |                              | 0        |
|                                      | 1       | 24        | 24.70                 | 24.71                 | 24.70                 |                              | 0        |
|                                      | 12      | 0         | 23.84                 | 23.81                 | 23.84                 | 0-1                          | 1        |
|                                      | 12      | 6         | 23.93                 | 23.89                 | 23.91                 |                              | 1        |
|                                      | 12      | 13        | 23.92                 | 23.95                 | 23.86                 |                              | 1        |
|                                      | 25      | 0         | 23.91                 | 23.83                 | 23.89                 |                              | 1        |
| 16QAM                                | 1       | 0         | 24.18                 | 24.10                 | 24.34                 | 0-1                          | 1        |
|                                      | 1       | 12        | 24.18                 | 24.18                 | 24.25                 |                              | 1        |
|                                      | 1       | 24        | 24.22                 | 24.25                 | 24.32                 |                              | 1        |
|                                      | 12      | 0         | 22.99                 | 22.79                 | 22.89                 | 0-2                          | 2        |
|                                      | 12      | 6         | 22.98                 | 22.83                 | 22.94                 |                              | 2        |
|                                      | 12      | 13        | 22.98                 | 22.90                 | 22.93                 |                              | 2        |
|                                      | 25      | 0         | 22.94                 | 22.83                 | 22.77                 |                              | 2        |
| 64QAM                                | 1       | 0         | 23.43                 | 23.29                 | 23.17                 | 0-2                          | 2        |
|                                      | 1       | 12        | 23.44                 | 23.36                 | 23.10                 |                              | 2        |
|                                      | 1       | 24        | 23.46                 | 23.42                 | 23.12                 |                              | 2        |
|                                      | 12      | 0         | 21.93                 | 21.88                 | 21.79                 | 0-3                          | 3        |
|                                      | 12      | 6         | 22.02                 | 21.92                 | 21.84                 |                              | 3        |
|                                      | 12      | 13        | 21.99                 | 21.93                 | 21.82                 |                              | 3        |
|                                      | 25      | 0         | 21.94                 | 21.94                 | 21.86                 |                              | 3        |

|                                                |                                                                                                                                                 |                                      |                                                                                                 |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: ZNFG900UM                              |  <b>PCTEST</b><br><small>Proud to be part of element</small> | <b>SAR EVALUATION REPORT</b>         |  <b>LG</b> | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004150063-01-R1.ZNF | <b>Test Dates:</b><br>04/27/20 – 06/25/20                                                                                                       | <b>DUT Type:</b><br>Portable Handset | Page 69 of 224                                                                                  |                                        |

**Table 9-58**  
**LTE Band 25 (PCS) Measured  $P_{max}$  - 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         | 24.71                 | 24.64                 | 24.67                 | 0                            | 0        |
|                                      | 1       | 7         | 24.66                 | 24.74                 | 24.73                 |                              | 0        |
|                                      | 1       | 14        | 24.73                 | 24.77                 | 24.73                 |                              | 0        |
|                                      | 8       | 0         | 23.88                 | 23.84                 | 23.81                 | 0-1                          | 1        |
|                                      | 8       | 4         | 23.92                 | 23.91                 | 23.87                 |                              | 1        |
|                                      | 8       | 7         | 23.92                 | 23.91                 | 23.84                 |                              | 1        |
| 15                                   | 0       | 23.93     | 23.89                 | 23.86                 | 1                     |                              |          |
| 16QAM                                | 1       | 0         | 24.35                 | 24.43                 | 24.47                 | 0-1                          | 1        |
|                                      | 1       | 7         | 24.30                 | 24.46                 | 24.43                 |                              | 1        |
|                                      | 1       | 14        | 24.35                 | 24.36                 | 24.32                 |                              | 1        |
|                                      | 8       | 0         | 22.96                 | 22.88                 | 22.91                 | 0-2                          | 2        |
|                                      | 8       | 4         | 23.01                 | 22.98                 | 22.91                 |                              | 2        |
|                                      | 8       | 7         | 23.01                 | 22.99                 | 22.92                 |                              | 2        |
| 15                                   | 0       | 23.00     | 22.88                 | 22.94                 | 2                     |                              |          |
| 64QAM                                | 1       | 0         | 23.16                 | 23.41                 | 23.45                 | 0-2                          | 2        |
|                                      | 1       | 7         | 23.20                 | 23.41                 | 23.39                 |                              | 2        |
|                                      | 1       | 14        | 23.22                 | 23.45                 | 23.32                 |                              | 2        |
|                                      | 8       | 0         | 22.03                 | 22.07                 | 22.09                 | 0-3                          | 3        |
|                                      | 8       | 4         | 22.08                 | 22.21                 | 22.17                 |                              | 3        |
|                                      | 8       | 7         | 22.08                 | 22.15                 | 22.10                 |                              | 3        |
| 15                                   | 0       | 22.05     | 21.85                 | 21.89                 |                       | 3                            |          |

**Table 9-59**  
**LTE Band 25 (PCS) Measured  $P_{max}$  - 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         | 24.78                 | 24.64                 | 24.65                 | 0                            | 0        |
|                                        | 1       | 2         | 24.84                 | 24.72                 | 24.67                 |                              | 0        |
|                                        | 1       | 5         | 24.75                 | 24.71                 | 24.68                 |                              | 0        |
|                                        | 3       | 0         | 24.74                 | 24.74                 | 24.68                 |                              | 0        |
|                                        | 3       | 2         | 24.74                 | 24.79                 | 24.66                 |                              | 0        |
|                                        | 3       | 3         | 24.70                 | 24.77                 | 24.63                 |                              | 0        |
|                                        | 6       | 0         | 23.82                 | 23.81                 | 23.80                 | 0-1                          | 1        |
| 16QAM                                  | 1       | 0         | 24.20                 | 24.17                 | 24.23                 | 0-1                          | 1        |
|                                        | 1       | 2         | 24.26                 | 24.23                 | 24.31                 |                              | 1        |
|                                        | 1       | 5         | 24.21                 | 24.17                 | 24.28                 |                              | 1        |
|                                        | 3       | 0         | 24.07                 | 23.68                 | 23.99                 |                              | 1        |
|                                        | 3       | 2         | 24.17                 | 23.72                 | 24.02                 |                              | 1        |
|                                        | 3       | 3         | 24.13                 | 23.73                 | 24.01                 | 1                            |          |
| 6                                      | 0       | 22.94     | 22.74                 | 22.81                 | 0-2                   | 2                            |          |
| 64QAM                                  | 1       | 0         | 23.30                 | 23.34                 | 23.12                 | 0-2                          | 2        |
|                                        | 1       | 2         | 23.37                 | 23.42                 | 23.17                 |                              | 2        |
|                                        | 1       | 5         | 23.35                 | 23.36                 | 23.16                 |                              | 2        |
|                                        | 3       | 0         | 22.82                 | 23.06                 | 22.91                 |                              | 2        |
|                                        | 3       | 2         | 22.89                 | 23.11                 | 22.96                 |                              | 2        |
|                                        | 3       | 3         | 22.84                 | 23.06                 | 22.95                 |                              | 2        |
|                                        | 6       | 0         | 21.97                 | 22.11                 | 21.98                 | 0-3                          | 3        |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 70 of 224                  |

**Table 9-60**  
**LTE Band 25 (PCS) Measured  $P_{limit}$  for DSI = 6 (Dual Display Cover 0° or 360°) or DSI = 7 (Dual Display Cover 180°) -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         | 23.84                 | 23.66                 | 23.67                 | 0                            | 0        |
|                                       | 1       | 50        | 23.86                 | 23.67                 | 23.63                 |                              | 0        |
|                                       | 1       | 99        | 23.84                 | 23.69                 | 23.65                 |                              | 0        |
|                                       | 50      | 0         | 23.75                 | 23.73                 | 23.76                 | 0-1                          | 0        |
|                                       | 50      | 25        | 23.85                 | 23.76                 | 23.75                 |                              | 0        |
|                                       | 50      | 50        | 23.81                 | 23.78                 | 23.83                 |                              | 0        |
|                                       | 100     | 0         | 23.72                 | 23.64                 | 23.70                 |                              | 0        |
| 16QAM                                 | 1       | 0         | 24.19                 | 24.32                 | 24.22                 | 0-1                          | 0        |
|                                       | 1       | 50        | 24.18                 | 24.34                 | 24.24                 |                              | 0        |
|                                       | 1       | 99        | 24.20                 | 24.30                 | 24.23                 |                              | 0        |
|                                       | 50      | 0         | 22.85                 | 22.81                 | 22.80                 | 0-2                          | 1        |
|                                       | 50      | 25        | 22.82                 | 22.78                 | 22.81                 |                              | 1        |
|                                       | 50      | 50        | 22.76                 | 22.85                 | 22.86                 |                              | 1        |
|                                       | 100     | 0         | 22.78                 | 22.73                 | 22.74                 |                              | 1        |
| 64QAM                                 | 1       | 0         | 22.95                 | 23.08                 | 23.38                 | 0-2                          | 1        |
|                                       | 1       | 50        | 22.96                 | 23.12                 | 23.42                 |                              | 1        |
|                                       | 1       | 99        | 23.05                 | 23.14                 | 23.40                 |                              | 1        |
|                                       | 50      | 0         | 21.85                 | 21.86                 | 21.83                 | 0-3                          | 2        |
|                                       | 50      | 25        | 21.90                 | 21.83                 | 21.84                 |                              | 2        |
|                                       | 50      | 50        | 21.91                 | 21.87                 | 21.87                 |                              | 2        |
|                                       | 100     | 0         | 21.79                 | 21.72                 | 21.85                 |                              | 2        |

**Table 9-61**  
**LTE Band 25 (PCS) Measured  $P_{limit}$  for DSI = 6 (Dual Display Cover 0° or 360°) or DSI = 7 (Dual Display Cover 180°) -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         | 23.82                 | 23.88                 | 24.03                 | 0                            | 0        |
|                                       | 1       | 36        | 24.13                 | 23.93                 | 24.07                 |                              | 0        |
|                                       | 1       | 74        | 23.95                 | 23.96                 | 23.99                 |                              | 0        |
|                                       | 36      | 0         | 23.91                 | 23.95                 | 23.92                 | 0-1                          | 0        |
|                                       | 36      | 18        | 24.14                 | 24.07                 | 24.07                 |                              | 0        |
|                                       | 36      | 37        | 24.10                 | 24.09                 | 24.03                 |                              | 0        |
|                                       | 75      | 0         | 24.07                 | 23.94                 | 24.01                 |                              | 0        |
| 16QAM                                 | 1       | 0         | 23.99                 | 23.96                 | 24.03                 | 0-1                          | 0        |
|                                       | 1       | 36        | 24.18                 | 24.09                 | 24.09                 |                              | 0        |
|                                       | 1       | 74        | 23.86                 | 24.01                 | 24.07                 |                              | 0        |
|                                       | 36      | 0         | 22.63                 | 22.68                 | 22.61                 | 0-2                          | 1        |
|                                       | 36      | 18        | 22.83                 | 22.79                 | 22.79                 |                              | 1        |
|                                       | 36      | 37        | 22.76                 | 22.82                 | 22.76                 |                              | 1        |
|                                       | 75      | 0         | 22.74                 | 22.69                 | 22.70                 |                              | 1        |
| 64QAM                                 | 1       | 0         | 23.12                 | 22.92                 | 23.35                 | 0-2                          | 1        |
|                                       | 1       | 36        | 23.49                 | 23.03                 | 23.47                 |                              | 1        |
|                                       | 1       | 74        | 23.30                 | 22.94                 | 23.38                 |                              | 1        |
|                                       | 36      | 0         | 21.65                 | 21.73                 | 21.68                 | 0-3                          | 2        |
|                                       | 36      | 18        | 21.86                 | 21.82                 | 21.89                 |                              | 2        |
|                                       | 36      | 37        | 21.81                 | 21.88                 | 21.80                 |                              | 2        |
|                                       | 75      | 0         | 21.82                 | 21.60                 | 21.84                 |                              | 2        |

|                                         |                                                                                                                                                 |                               |                                                                                                 |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset | Page 71 of 224                                                                                  |                                 |

**Table 9-62**  
**LTE Band 25 (PCS) Measured  $P_{limit}$  for DSI = 6 (Dual Display Cover 0° or 360°) or DSI = 7 (Dual Display Cover 180°) -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         | 23.57                 | 23.62                 | 23.80                 | 0                            | 0        |
|                                       | 1       | 25        | 23.74                 | 23.85                 | 23.75                 |                              | 0        |
|                                       | 1       | 49        | 23.53                 | 23.64                 | 23.80                 |                              | 0        |
|                                       | 25      | 0         | 23.92                 | 23.84                 | 23.74                 | 0-1                          | 0        |
|                                       | 25      | 12        | 24.05                 | 23.94                 | 23.88                 |                              | 0        |
|                                       | 25      | 25        | 23.96                 | 23.92                 | 23.86                 |                              | 0        |
|                                       | 50      | 0         | 23.95                 | 23.86                 | 23.78                 |                              | 0        |
| 16QAM                                 | 1       | 0         | 23.48                 | 24.01                 | 23.74                 | 0-1                          | 0        |
|                                       | 1       | 25        | 23.65                 | 24.32                 | 23.87                 |                              | 0        |
|                                       | 1       | 49        | 23.42                 | 24.07                 | 23.93                 |                              | 0        |
|                                       | 25      | 0         | 22.93                 | 22.79                 | 22.74                 | 0-2                          | 1        |
|                                       | 25      | 12        | 23.05                 | 22.92                 | 22.85                 |                              | 1        |
|                                       | 25      | 25        | 22.94                 | 22.86                 | 22.81                 |                              | 1        |
|                                       | 50      | 0         | 22.88                 | 22.77                 | 22.68                 |                              | 1        |
| 64QAM                                 | 1       | 0         | 22.76                 | 22.57                 | 23.03                 | 0-2                          | 1        |
|                                       | 1       | 25        | 22.98                 | 22.69                 | 22.98                 |                              | 1        |
|                                       | 1       | 49        | 22.73                 | 22.59                 | 23.01                 |                              | 1        |
|                                       | 25      | 0         | 21.88                 | 21.76                 | 21.68                 | 0-3                          | 2        |
|                                       | 25      | 12        | 21.95                 | 21.91                 | 21.72                 |                              | 2        |
|                                       | 25      | 25        | 21.89                 | 21.88                 | 21.75                 |                              | 2        |
|                                       | 50      | 0         | 21.79                 | 21.71                 | 21.63                 |                              | 2        |

**Table 9-63**  
**LTE Band 25 (PCS) Measured  $P_{limit}$  for DSI = 6 (Dual Display Cover 0° or 360°) or DSI = 7 (Dual Display Cover 180°) -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         | 23.73                 | 23.83                 | 23.83                 | 0                            | 0        |
|                                      | 1       | 12        | 23.75                 | 23.91                 | 23.78                 |                              | 0        |
|                                      | 1       | 24        | 23.77                 | 23.98                 | 23.86                 |                              | 0        |
|                                      | 12      | 0         | 23.90                 | 23.87                 | 23.85                 | 0-1                          | 0        |
|                                      | 12      | 6         | 23.97                 | 23.95                 | 23.95                 |                              | 0        |
|                                      | 12      | 13        | 23.99                 | 23.97                 | 23.92                 |                              | 0        |
|                                      | 25      | 0         | 23.99                 | 23.92                 | 23.87                 |                              | 0        |
| 16QAM                                | 1       | 0         | 23.93                 | 24.01                 | 23.88                 | 0-1                          | 0        |
|                                      | 1       | 12        | 23.97                 | 23.97                 | 23.93                 |                              | 0        |
|                                      | 1       | 24        | 24.03                 | 23.71                 | 23.95                 |                              | 0        |
|                                      | 12      | 0         | 22.87                 | 22.81                 | 22.77                 | 0-2                          | 1        |
|                                      | 12      | 6         | 22.84                 | 22.82                 | 22.82                 |                              | 1        |
|                                      | 12      | 13        | 22.87                 | 22.90                 | 22.81                 |                              | 1        |
|                                      | 25      | 0         | 22.83                 | 22.85                 | 22.73                 |                              | 1        |
| 64QAM                                | 1       | 0         | 22.93                 | 22.89                 | 23.17                 | 0-2                          | 1        |
|                                      | 1       | 12        | 22.93                 | 22.99                 | 23.12                 |                              | 1        |
|                                      | 1       | 24        | 23.00                 | 22.97                 | 23.16                 |                              | 1        |
|                                      | 12      | 0         | 21.83                 | 21.72                 | 21.78                 | 0-3                          | 2        |
|                                      | 12      | 6         | 21.89                 | 21.74                 | 21.87                 |                              | 2        |
|                                      | 12      | 13        | 21.84                 | 21.80                 | 21.81                 |                              | 2        |
|                                      | 25      | 0         | 21.80                 | 21.76                 | 21.77                 |                              | 2        |

|                                         |                                                                                                                    |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       | <br>Proud to be part of element | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                 | DUT Type:<br>Portable Handset | Page 72 of 224                                                                        |                                 |

**Table 9-64**  
**LTE Band 25 (PCS) Measured  $P_{limit}$  for DSI = 6 (Dual Display Cover 0° or 360°) or DSI = 7 (Dual Display Cover 180°) -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         | 23.84                 | 23.72                 | 23.66                 | 0                            | 0        |
|                                      | 1       | 7         | 23.82                 | 23.81                 | 23.68                 |                              | 0        |
|                                      | 1       | 14        | 23.84                 | 23.86                 | 23.74                 |                              | 0        |
|                                      | 8       | 0         | 23.96                 | 23.88                 | 23.83                 | 0-1                          | 0        |
|                                      | 8       | 4         | 24.03                 | 23.94                 | 23.85                 |                              | 0        |
|                                      | 8       | 7         | 24.00                 | 23.97                 | 23.83                 |                              | 0        |
|                                      | 15      | 0         | 23.94                 | 23.84                 | 23.87                 |                              | 0        |
| 16QAM                                | 1       | 0         | 23.95                 | 24.22                 | 23.66                 | 0-1                          | 0        |
|                                      | 1       | 7         | 23.91                 | 24.28                 | 23.59                 |                              | 0        |
|                                      | 1       | 14        | 23.94                 | 24.34                 | 23.62                 |                              | 0        |
|                                      | 8       | 0         | 22.85                 | 22.83                 | 22.68                 | 0-2                          | 1        |
|                                      | 8       | 4         | 22.91                 | 22.88                 | 22.71                 |                              | 1        |
|                                      | 8       | 7         | 22.88                 | 22.86                 | 22.72                 |                              | 1        |
|                                      | 15      | 0         | 22.91                 | 22.77                 | 22.68                 |                              | 1        |
| 64QAM                                | 1       | 0         | 22.99                 | 22.58                 | 22.85                 | 0-2                          | 1        |
|                                      | 1       | 7         | 23.01                 | 22.59                 | 22.81                 |                              | 1        |
|                                      | 1       | 14        | 23.04                 | 22.63                 | 22.85                 |                              | 1        |
|                                      | 8       | 0         | 21.85                 | 21.80                 | 21.70                 | 0-3                          | 2        |
|                                      | 8       | 4         | 21.88                 | 21.87                 | 21.80                 |                              | 2        |
|                                      | 8       | 7         | 21.85                 | 21.88                 | 21.75                 |                              | 2        |
|                                      | 15      | 0         | 21.86                 | 21.77                 | 21.80                 |                              | 2        |

**Table 9-65**  
**LTE Band 25 (PCS) Measured  $P_{limit}$  for DSI = 6 (Dual Display Cover 0° or 360°) or DSI = 7 (Dual Display Cover 180°) -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         | 23.56                 | 23.72                 | 23.69                 | 0                            | 0        |
|                                        | 1       | 2         | 23.63                 | 23.77                 | 23.76                 |                              | 0        |
|                                        | 1       | 5         | 23.55                 | 23.78                 | 23.70                 |                              | 0        |
|                                        | 3       | 0         | 23.65                 | 23.68                 | 23.55                 |                              | 0        |
|                                        | 3       | 2         | 23.68                 | 23.69                 | 23.63                 |                              | 0        |
|                                        | 3       | 3         | 23.62                 | 23.68                 | 23.55                 |                              | 0        |
|                                        | 6       | 0         | 23.75                 | 23.79                 | 23.81                 | 0-1                          | 0        |
| 16QAM                                  | 1       | 0         | 23.44                 | 23.57                 | 23.63                 | 0-1                          | 0        |
|                                        | 1       | 2         | 23.50                 | 23.58                 | 23.51                 |                              | 0        |
|                                        | 1       | 5         | 23.56                 | 23.55                 | 23.55                 |                              | 0        |
|                                        | 3       | 0         | 23.82                 | 23.80                 | 23.77                 |                              | 0        |
|                                        | 3       | 2         | 23.92                 | 23.93                 | 23.83                 |                              | 0        |
|                                        | 3       | 3         | 23.86                 | 23.90                 | 23.84                 |                              | 0        |
|                                        | 6       | 0         | 22.75                 | 22.98                 | 22.87                 | 0-2                          | 1        |
| 64QAM                                  | 1       | 0         | 22.91                 | 22.98                 | 22.96                 | 0-2                          | 1        |
|                                        | 1       | 2         | 22.98                 | 23.12                 | 23.07                 |                              | 1        |
|                                        | 1       | 5         | 22.99                 | 23.01                 | 22.94                 |                              | 1        |
|                                        | 3       | 0         | 22.85                 | 23.11                 | 23.01                 |                              | 1        |
|                                        | 3       | 2         | 22.95                 | 23.12                 | 23.06                 |                              | 1        |
|                                        | 3       | 3         | 22.89                 | 23.11                 | 23.03                 |                              | 1        |
|                                        | 6       | 0         | 21.89                 | 21.67                 | 21.62                 | 0-3                          | 2        |

|                                         |                                                                                                                                  |                               |                                                                                                 |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset | Page 73 of 224                                                                                  |                                 |

**Table 9-66**  
**LTE Band 25 (PCS) Measured  $P_{limit}$  for DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 21.89                 | 21.78                 | 21.79                 | 0                            | 0        |
|                                       | 1       | 50        | 21.76                 | 21.69                 | 21.75                 |                              | 0        |
|                                       | 1       | 99        | 21.72                 | 21.73                 | 21.70                 |                              | 0        |
|                                       | 50      | 0         | 21.77                 | 21.83                 | 21.78                 | 0-1                          | 0        |
|                                       | 50      | 25        | 21.98                 | 21.79                 | 21.76                 |                              | 0        |
|                                       | 50      | 50        | 21.88                 | 21.91                 | 21.83                 |                              | 0        |
|                                       | 100     | 0         | 21.81                 | 21.71                 | 21.80                 |                              | 0        |
| 16QAM                                 | 1       | 0         | 22.12                 | 22.22                 | 22.10                 | 0-1                          | 0        |
|                                       | 1       | 50        | 22.07                 | 22.38                 | 22.15                 |                              | 0        |
|                                       | 1       | 99        | 22.15                 | 22.14                 | 21.99                 |                              | 0        |
|                                       | 50      | 0         | 21.82                 | 21.87                 | 21.86                 | 0-2                          | 0        |
|                                       | 50      | 25        | 21.90                 | 21.83                 | 21.77                 |                              | 0        |
|                                       | 50      | 50        | 22.00                 | 21.89                 | 21.80                 |                              | 0        |
|                                       | 100     | 0         | 21.80                 | 21.74                 | 21.68                 |                              | 0        |
| 64QAM                                 | 1       | 0         | 22.06                 | 22.03                 | 21.93                 | 0-2                          | 0        |
|                                       | 1       | 50        | 22.10                 | 22.10                 | 21.61                 |                              | 0        |
|                                       | 1       | 99        | 22.05                 | 22.04                 | 21.99                 |                              | 0        |
|                                       | 50      | 0         | 21.72                 | 22.20                 | 21.73                 | 0-3                          | 0        |
|                                       | 50      | 25        | 21.83                 | 22.23                 | 21.72                 |                              | 0        |
|                                       | 50      | 50        | 21.76                 | 22.24                 | 21.77                 |                              | 0        |
|                                       | 100     | 0         | 21.70                 | 21.67                 | 21.61                 |                              | 0        |

**Table 9-67**  
**LTE Band 25 (PCS) Measured  $P_{limit}$  for DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 21.52                 | 21.75                 | 21.90                 | 0                            | 0        |
|                                       | 1       | 36        | 21.74                 | 21.76                 | 21.87                 |                              | 0        |
|                                       | 1       | 74        | 21.65                 | 21.77                 | 21.88                 |                              | 0        |
|                                       | 36      | 0         | 21.80                 | 21.80                 | 21.79                 | 0-1                          | 0        |
|                                       | 36      | 18        | 22.01                 | 21.89                 | 21.96                 |                              | 0        |
|                                       | 36      | 37        | 21.96                 | 21.95                 | 21.93                 |                              | 0        |
|                                       | 75      | 0         | 21.90                 | 21.82                 | 21.89                 |                              | 0        |
| 16QAM                                 | 1       | 0         | 22.12                 | 22.36                 | 22.12                 | 0-1                          | 0        |
|                                       | 1       | 36        | 22.39                 | 22.38                 | 22.26                 |                              | 0        |
|                                       | 1       | 74        | 22.38                 | 22.37                 | 22.03                 |                              | 0        |
|                                       | 36      | 0         | 21.87                 | 21.83                 | 21.80                 | 0-2                          | 0        |
|                                       | 36      | 18        | 22.03                 | 21.95                 | 21.97                 |                              | 0        |
|                                       | 36      | 37        | 22.00                 | 22.02                 | 21.95                 |                              | 0        |
|                                       | 75      | 0         | 21.92                 | 21.85                 | 21.95                 |                              | 0        |
| 64QAM                                 | 1       | 0         | 21.91                 | 22.25                 | 22.11                 | 0-2                          | 0        |
|                                       | 1       | 36        | 22.22                 | 22.28                 | 22.18                 |                              | 0        |
|                                       | 1       | 74        | 22.12                 | 22.24                 | 22.12                 |                              | 0        |
|                                       | 36      | 0         | 21.74                 | 21.74                 | 21.83                 | 0-3                          | 0        |
|                                       | 36      | 18        | 21.92                 | 21.84                 | 21.99                 |                              | 0        |
|                                       | 36      | 37        | 21.93                 | 21.88                 | 21.96                 |                              | 0        |
|                                       | 75      | 0         | 21.86                 | 21.76                 | 21.90                 |                              | 0        |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 74 of 224                                                                        |                                 |

**Table 9-68**  
**LTE Band 25 (PCS) Measured  $P_{limit}$  for DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 21.72                 | 21.60                 | 21.89                 | 0                            | 0        |
|                                       | 1       | 25        | 21.89                 | 21.82                 | 21.90                 |                              | 0        |
|                                       | 1       | 49        | 21.70                 | 21.64                 | 21.92                 |                              | 0        |
|                                       | 25      | 0         | 21.97                 | 21.83                 | 21.82                 | 0-1                          | 0        |
|                                       | 25      | 12        | 22.02                 | 21.92                 | 21.90                 |                              | 0        |
|                                       | 25      | 25        | 21.98                 | 21.95                 | 21.93                 |                              | 0        |
|                                       | 50      | 0         | 21.94                 | 21.83                 | 21.81                 |                              | 0        |
| 16QAM                                 | 1       | 0         | 22.18                 | 22.13                 | 22.19                 | 0-1                          | 0        |
|                                       | 1       | 25        | 22.23                 | 22.39                 | 22.16                 |                              | 0        |
|                                       | 1       | 49        | 22.19                 | 22.14                 | 22.13                 |                              | 0        |
|                                       | 25      | 0         | 21.94                 | 21.83                 | 21.88                 | 0-2                          | 0        |
|                                       | 25      | 12        | 22.02                 | 21.92                 | 21.94                 |                              | 0        |
|                                       | 25      | 25        | 21.95                 | 21.93                 | 21.99                 |                              | 0        |
|                                       | 50      | 0         | 21.99                 | 21.87                 | 21.82                 |                              | 0        |
| 64QAM                                 | 1       | 0         | 21.88                 | 21.81                 | 22.16                 | 0-2                          | 0        |
|                                       | 1       | 25        | 22.17                 | 22.14                 | 22.09                 |                              | 0        |
|                                       | 1       | 49        | 21.93                 | 21.84                 | 22.13                 |                              | 0        |
|                                       | 25      | 0         | 21.90                 | 21.79                 | 21.77                 | 0-3                          | 0        |
|                                       | 25      | 12        | 22.03                 | 21.91                 | 21.90                 |                              | 0        |
|                                       | 25      | 25        | 21.93                 | 21.92                 | 21.89                 |                              | 0        |
|                                       | 50      | 0         | 21.88                 | 21.78                 | 21.79                 |                              | 0        |

**Table 9-69**  
**LTE Band 25 (PCS) Measured  $P_{limit}$  for DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 21.82                 | 21.73                 | 21.84                 | 0                            | 0        |
|                                      | 1       | 12        | 21.84                 | 21.79                 | 21.82                 |                              | 0        |
|                                      | 1       | 24        | 21.92                 | 21.87                 | 21.80                 |                              | 0        |
|                                      | 12      | 0         | 21.97                 | 21.90                 | 21.93                 | 0-1                          | 0        |
|                                      | 12      | 6         | 22.06                 | 21.91                 | 21.98                 |                              | 0        |
|                                      | 12      | 13        | 22.00                 | 21.98                 | 21.97                 |                              | 0        |
|                                      | 25      | 0         | 22.03                 | 21.95                 | 21.92                 |                              | 0        |
| 16QAM                                | 1       | 0         | 22.31                 | 22.33                 | 22.26                 | 0-1                          | 0        |
|                                      | 1       | 12        | 22.22                 | 22.39                 | 22.16                 |                              | 0        |
|                                      | 1       | 24        | 22.35                 | 22.34                 | 22.25                 |                              | 0        |
|                                      | 12      | 0         | 22.00                 | 21.88                 | 21.87                 | 0-2                          | 0        |
|                                      | 12      | 6         | 22.01                 | 21.95                 | 21.97                 |                              | 0        |
|                                      | 12      | 13        | 22.00                 | 21.98                 | 21.92                 |                              | 0        |
|                                      | 25      | 0         | 21.99                 | 21.92                 | 21.91                 |                              | 0        |
| 64QAM                                | 1       | 0         | 22.21                 | 22.24                 | 22.16                 | 0-2                          | 0        |
|                                      | 1       | 12        | 22.19                 | 22.32                 | 22.38                 |                              | 0        |
|                                      | 1       | 24        | 22.20                 | 22.36                 | 22.17                 |                              | 0        |
|                                      | 12      | 0         | 21.94                 | 21.66                 | 21.85                 | 0-3                          | 0        |
|                                      | 12      | 6         | 21.99                 | 21.70                 | 21.91                 |                              | 0        |
|                                      | 12      | 13        | 22.01                 | 21.78                 | 21.89                 |                              | 0        |
|                                      | 25      | 0         | 21.98                 | 21.79                 | 21.86                 |                              | 0        |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
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| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 75 of 224                                                                        |                                 |

**Table 9-70**  
**LTE Band 25 (PCS) Measured  $P_{limit}$  for DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 21.90                 | 21.83                 | 21.84                 | 0                            | 0        |
|                                      | 1       | 7         | 21.93                 | 21.87                 | 21.88                 |                              | 0        |
|                                      | 1       | 14        | 21.98                 | 21.96                 | 21.93                 |                              | 0        |
|                                      | 8       | 0         | 21.93                 | 21.90                 | 21.90                 | 0-1                          | 0        |
|                                      | 8       | 4         | 21.97                 | 22.00                 | 21.97                 |                              | 0        |
|                                      | 8       | 7         | 21.96                 | 21.99                 | 21.94                 |                              | 0        |
|                                      | 15      | 0         | 22.02                 | 21.90                 | 21.90                 |                              | 0        |
| 16QAM                                | 1       | 0         | 22.15                 | 22.17                 | 22.29                 | 0-1                          | 0        |
|                                      | 1       | 7         | 22.13                 | 22.22                 | 22.39                 |                              | 0        |
|                                      | 1       | 14        | 22.22                 | 22.30                 | 22.24                 |                              | 0        |
|                                      | 8       | 0         | 21.99                 | 22.02                 | 21.95                 | 0-2                          | 0        |
|                                      | 8       | 4         | 22.02                 | 22.07                 | 22.04                 |                              | 0        |
|                                      | 8       | 7         | 22.00                 | 22.06                 | 21.99                 |                              | 0        |
|                                      | 15      | 0         | 21.89                 | 21.88                 | 21.87                 |                              | 0        |
| 64QAM                                | 1       | 0         | 22.18                 | 22.39                 | 22.20                 | 0-2                          | 0        |
|                                      | 1       | 7         | 22.13                 | 22.18                 | 22.15                 |                              | 0        |
|                                      | 1       | 14        | 22.25                 | 22.30                 | 22.23                 |                              | 0        |
|                                      | 8       | 0         | 21.83                 | 21.98                 | 22.00                 | 0-3                          | 0        |
|                                      | 8       | 4         | 21.86                 | 22.05                 | 21.99                 |                              | 0        |
|                                      | 8       | 7         | 21.85                 | 22.03                 | 22.02                 |                              | 0        |
|                                      | 15      | 0         | 22.00                 | 21.75                 | 21.74                 |                              | 0        |

**Table 9-71**  
**LTE Band 25 (PCS) Measured  $P_{limit}$  for DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 21.89                 | 21.84                 | 21.72                 | 0                            | 0        |
|                                        | 1       | 2         | 21.93                 | 21.88                 | 21.76                 |                              | 0        |
|                                        | 1       | 5         | 21.92                 | 21.86                 | 21.71                 |                              | 0        |
|                                        | 3       | 0         | 21.85                 | 21.83                 | 21.75                 |                              | 0        |
|                                        | 3       | 2         | 21.93                 | 21.89                 | 21.77                 |                              | 0        |
|                                        | 3       | 3         | 21.88                 | 21.86                 | 21.76                 |                              | 0        |
|                                        | 6       | 0         | 21.96                 | 21.88                 | 21.81                 | 0-1                          | 0        |
| 16QAM                                  | 1       | 0         | 22.08                 | 22.10                 | 22.18                 | 0-1                          | 0        |
|                                        | 1       | 2         | 22.15                 | 22.16                 | 22.30                 |                              | 0        |
|                                        | 1       | 5         | 22.08                 | 22.08                 | 22.27                 |                              | 0        |
|                                        | 3       | 0         | 22.00                 | 21.96                 | 21.84                 |                              | 0        |
|                                        | 3       | 2         | 22.06                 | 21.99                 | 21.92                 |                              | 0        |
|                                        | 3       | 3         | 21.97                 | 21.94                 | 21.87                 |                              | 0        |
|                                        | 6       | 0         | 21.99                 | 21.95                 | 21.85                 | 0-2                          | 0        |
| 64QAM                                  | 1       | 0         | 22.11                 | 22.08                 | 21.96                 | 0-2                          | 0        |
|                                        | 1       | 2         | 22.16                 | 22.14                 | 21.98                 |                              | 0        |
|                                        | 1       | 5         | 22.09                 | 22.07                 | 21.99                 |                              | 0        |
|                                        | 3       | 0         | 22.06                 | 22.00                 | 21.73                 |                              | 0        |
|                                        | 3       | 2         | 22.11                 | 22.06                 | 21.76                 |                              | 0        |
|                                        | 3       | 3         | 22.10                 | 22.01                 | 21.71                 |                              | 0        |
|                                        | 6       | 0         | 22.00                 | 21.97                 | 21.76                 | 0-3                          | 0        |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b>  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 76 of 224                                                                        |                                 |

## 9.4.9

## LTE Band 30

Table 9-72  
LTE Band 30 Measured  $P_{max}$  - 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         | 22.42                    | 0                            | 0        |
|                                 | 1       | 25        | 22.35                    |                              | 0        |
|                                 | 1       | 49        | 22.41                    |                              | 0        |
|                                 | 25      | 0         | 21.46                    | 0-1                          | 1        |
|                                 | 25      | 12        | 21.56                    |                              | 1        |
|                                 | 25      | 25        | 21.50                    |                              | 1        |
|                                 | 50      | 0         | 21.45                    |                              | 1        |
| 16QAM                           | 1       | 0         | 21.62                    | 0-1                          | 1        |
|                                 | 1       | 25        | 21.54                    |                              | 1        |
|                                 | 1       | 49        | 21.57                    |                              | 1        |
|                                 | 25      | 0         | 20.57                    | 0-2                          | 2        |
|                                 | 25      | 12        | 20.61                    |                              | 2        |
|                                 | 25      | 25        | 20.60                    |                              | 2        |
|                                 | 50      | 0         | 20.47                    |                              | 2        |
| 64QAM                           | 1       | 0         | 20.72                    | 0-2                          | 2        |
|                                 | 1       | 25        | 20.83                    |                              | 2        |
|                                 | 1       | 49        | 20.77                    |                              | 2        |
|                                 | 25      | 0         | 19.55                    | 0-3                          | 3        |
|                                 | 25      | 12        | 19.64                    |                              | 3        |
|                                 | 25      | 25        | 19.61                    |                              | 3        |
|                                 | 50      | 0         | 19.47                    |                              | 3        |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 77 of 224                  |

**Table 9-73**  
**LTE Band 30 Measured  $P_{max}$  - 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         | 22.02                    | 0                            | 0        |
|                                | 1       | 12        | 22.15                    |                              | 0        |
|                                | 1       | 24        | 22.10                    |                              | 0        |
|                                | 12      | 0         | 21.45                    | 0-1                          | 1        |
|                                | 12      | 6         | 21.47                    |                              | 1        |
|                                | 12      | 13        | 21.51                    |                              | 1        |
|                                | 25      | 0         | 21.45                    |                              | 1        |
| 16QAM                          | 1       | 0         | 21.64                    | 0-1                          | 1        |
|                                | 1       | 12        | 21.83                    |                              | 1        |
|                                | 1       | 24        | 21.70                    |                              | 1        |
|                                | 12      | 0         | 20.53                    | 0-2                          | 2        |
|                                | 12      | 6         | 20.58                    |                              | 2        |
|                                | 12      | 13        | 20.53                    |                              | 2        |
|                                | 25      | 0         | 20.42                    |                              | 2        |
| 64QAM                          | 1       | 0         | 20.47                    | 0-2                          | 2        |
|                                | 1       | 12        | 20.56                    |                              | 2        |
|                                | 1       | 24        | 20.51                    |                              | 2        |
|                                | 12      | 0         | 19.33                    | 0-3                          | 3        |
|                                | 12      | 6         | 19.39                    |                              | 3        |
|                                | 12      | 13        | 19.42                    |                              | 3        |
|                                | 25      | 0         | 19.46                    |                              | 3        |

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.

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
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| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 78 of 224                  |

## 9.4.10

## LTE Band 7

**Table 9-74**  
**LTE Band 7 Measured  $P_{max}$  - 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         | 24.51                 | 24.67                 | 24.73                 | 0                            | 0        |
|                                | 1       | 50        | 24.43                 | 24.69                 | 24.71                 |                              | 0        |
|                                | 1       | 99        | 24.50                 | 24.68                 | 24.74                 |                              | 0        |
|                                | 50      | 0         | 23.71                 | 23.70                 | 23.77                 | 0-1                          | 1        |
|                                | 50      | 25        | 23.76                 | 23.72                 | 23.83                 |                              | 1        |
|                                | 50      | 50        | 23.78                 | 23.79                 | 23.78                 |                              | 1        |
|                                | 100     | 0         | 23.72                 | 23.64                 | 23.67                 |                              | 1        |
| 16QAM                          | 1       | 0         | 24.21                 | 24.25                 | 24.16                 | 0-1                          | 1        |
|                                | 1       | 50        | 24.26                 | 24.22                 | 24.15                 |                              | 1        |
|                                | 1       | 99        | 24.20                 | 24.36                 | 24.15                 |                              | 1        |
|                                | 50      | 0         | 22.71                 | 22.75                 | 22.71                 | 0-2                          | 2        |
|                                | 50      | 25        | 22.73                 | 22.76                 | 22.78                 |                              | 2        |
|                                | 50      | 50        | 22.81                 | 22.79                 | 22.79                 |                              | 2        |
|                                | 100     | 0         | 22.71                 | 22.69                 | 22.69                 |                              | 2        |
| 64QAM                          | 1       | 0         | 23.30                 | 22.99                 | 22.56                 | 0-2                          | 2        |
|                                | 1       | 50        | 23.02                 | 23.00                 | 22.97                 |                              | 2        |
|                                | 1       | 99        | 23.25                 | 22.69                 | 22.82                 |                              | 2        |
|                                | 50      | 0         | 21.73                 | 21.81                 | 21.80                 | 0-3                          | 3        |
|                                | 50      | 25        | 21.51                 | 21.79                 | 21.90                 |                              | 3        |
|                                | 50      | 50        | 21.50                 | 21.86                 | 21.81                 |                              | 3        |
|                                | 100     | 0         | 21.72                 | 21.69                 | 21.69                 |                              | 3        |

**Table 9-75**  
**LTE Band 7 Measured  $P_{max}$  - 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         | 24.59                 | 24.54                 | 24.53                 | 0                            | 0        |
|                                | 1       | 36        | 24.62                 | 24.59                 | 24.59                 |                              | 0        |
|                                | 1       | 74        | 24.53                 | 24.57                 | 24.51                 |                              | 0        |
|                                | 36      | 0         | 23.75                 | 23.72                 | 23.75                 | 0-1                          | 1        |
|                                | 36      | 18        | 23.84                 | 23.76                 | 23.85                 |                              | 1        |
|                                | 36      | 37        | 23.78                 | 23.77                 | 23.85                 |                              | 1        |
|                                | 75      | 0         | 23.76                 | 23.65                 | 23.69                 |                              | 1        |
| 16QAM                          | 1       | 0         | 24.35                 | 24.00                 | 24.24                 | 0-1                          | 1        |
|                                | 1       | 36        | 24.38                 | 24.07                 | 24.27                 |                              | 1        |
|                                | 1       | 74        | 24.35                 | 24.03                 | 24.25                 |                              | 1        |
|                                | 36      | 0         | 22.72                 | 22.76                 | 22.78                 | 0-2                          | 2        |
|                                | 36      | 18        | 22.80                 | 22.77                 | 22.91                 |                              | 2        |
|                                | 36      | 37        | 22.78                 | 22.82                 | 22.81                 |                              | 2        |
|                                | 75      | 0         | 22.76                 | 22.69                 | 22.76                 |                              | 2        |
| 64QAM                          | 1       | 0         | 23.25                 | 23.04                 | 23.18                 | 0-2                          | 2        |
|                                | 1       | 36        | 23.33                 | 23.18                 | 23.27                 |                              | 2        |
|                                | 1       | 74        | 22.94                 | 23.16                 | 23.15                 |                              | 2        |
|                                | 36      | 0         | 21.81                 | 21.77                 | 21.75                 | 0-3                          | 3        |
|                                | 36      | 18        | 21.90                 | 21.83                 | 21.90                 |                              | 3        |
|                                | 36      | 37        | 21.83                 | 21.87                 | 21.87                 |                              | 3        |
|                                | 75      | 0         | 21.76                 | 21.74                 | 21.74                 |                              | 3        |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 79 of 224                                                                        |                                 |

**Table 9-76**  
**LTE Band 7 Measured  $P_{max}$  - 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         | 24.75                 | 24.76                 | 24.76                 | 0                            | 0        |
|                                | 1       | 25        | 24.66                 | 24.70                 | 24.72                 |                              | 0        |
|                                | 1       | 49        | 24.74                 | 24.77                 | 24.79                 |                              | 0        |
|                                | 25      | 0         | 23.80                 | 23.79                 | 23.77                 | 0-1                          | 1        |
|                                | 25      | 12        | 23.80                 | 23.80                 | 23.83                 |                              | 1        |
|                                | 25      | 25        | 23.82                 | 23.84                 | 23.89                 |                              | 1        |
| 16QAM                          | 50      | 0         | 23.77                 | 23.70                 | 23.74                 | 0-1                          | 1        |
|                                | 1       | 0         | 24.48                 | 24.25                 | 24.45                 |                              | 1        |
|                                | 1       | 25        | 24.48                 | 24.23                 | 24.40                 |                              | 1        |
|                                | 1       | 49        | 24.45                 | 24.27                 | 24.44                 | 0-2                          | 1        |
|                                | 25      | 0         | 22.86                 | 22.81                 | 22.80                 |                              | 2        |
|                                | 25      | 12        | 22.82                 | 22.80                 | 22.82                 |                              | 2        |
| 64QAM                          | 25      | 25        | 22.83                 | 22.92                 | 22.86                 | 0-2                          | 2        |
|                                | 50      | 0         | 22.75                 | 22.74                 | 22.78                 |                              | 2        |
|                                | 1       | 0         | 23.50                 | 23.32                 | 23.16                 | 0-2                          | 2        |
|                                | 1       | 25        | 23.44                 | 23.39                 | 23.22                 |                              | 2        |
|                                | 1       | 49        | 23.45                 | 23.40                 | 23.24                 |                              | 2        |
|                                | 25      | 0         | 21.88                 | 21.95                 | 21.94                 | 0-3                          | 3        |
| 25                             | 12      | 21.87     | 21.99                 | 21.97                 | 3                     |                              |          |
| 25                             | 25      | 21.91     | 22.02                 | 22.02                 | 3                     |                              |          |
|                                | 50      | 0         | 21.79                 | 21.80                 | 21.77                 |                              | 3        |

**Table 9-77**  
**LTE Band 7 Measured  $P_{max}$  - 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         | 24.67                 | 24.66                 | 24.72                 | 0                            | 0        |
|                               | 1       | 12        | 24.61                 | 24.72                 | 24.68                 |                              | 0        |
|                               | 1       | 24        | 24.67                 | 24.73                 | 24.71                 |                              | 0        |
|                               | 12      | 0         | 23.81                 | 23.78                 | 23.87                 | 0-1                          | 1        |
|                               | 12      | 6         | 23.82                 | 23.86                 | 23.90                 |                              | 1        |
|                               | 12      | 13        | 23.77                 | 23.83                 | 23.84                 |                              | 1        |
| 16QAM                         | 25      | 0         | 23.83                 | 23.78                 | 23.82                 | 1                            |          |
|                               | 1       | 0         | 24.32                 | 24.20                 | 24.29                 | 0-1                          | 1        |
|                               | 1       | 12        | 24.26                 | 24.21                 | 24.22                 |                              | 1        |
|                               | 1       | 24        | 24.33                 | 24.23                 | 24.27                 |                              | 1        |
|                               | 12      | 0         | 22.83                 | 22.83                 | 22.85                 | 0-2                          | 2        |
|                               | 12      | 6         | 22.83                 | 22.90                 | 22.83                 |                              | 2        |
| 12                            | 13      | 22.80     | 22.91                 | 22.77                 | 2                     |                              |          |
| 64QAM                         | 25      | 0         | 22.75                 | 22.82                 | 22.85                 | 2                            |          |
|                               | 1       | 0         | 23.12                 | 23.41                 | 23.43                 | 0-2                          | 2        |
|                               | 1       | 12        | 23.10                 | 23.46                 | 23.37                 |                              | 2        |
|                               | 1       | 24        | 23.10                 | 23.46                 | 23.41                 |                              | 2        |
|                               | 12      | 0         | 21.74                 | 21.86                 | 21.86                 | 0-3                          | 3        |
|                               | 12      | 6         | 21.77                 | 21.89                 | 21.90                 |                              | 3        |
|                               | 12      | 13        | 21.72                 | 21.86                 | 21.87                 |                              | 3        |
| 25                            | 0       | 21.76     | 21.82                 | 21.93                 | 3                     |                              |          |

|                                         |                                                                                                                                  |                               |                                                                                                 |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset | Page 80 of 224                                                                                  |                                 |

**Table 9-78**  
**LTE Band 7 Measured  $P_{limit}$  for DSI = 6 (Dual Display Cover 0° or 360°) or DSI = 7 (Dual Display Cover 180°)**  
**-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         | 23.73                 | 23.68                 | 23.63                 | 0                            | 0        |
|                                | 1       | 50        | 23.66                 | 23.69                 | 23.67                 |                              | 0        |
|                                | 1       | 99        | 23.52                 | 23.71                 | 23.66                 |                              | 0        |
|                                | 50      | 0         | 23.61                 | 23.68                 | 23.58                 | 0-1                          | 0        |
|                                | 50      | 25        | 23.69                 | 23.59                 | 23.68                 |                              | 0        |
|                                | 50      | 50        | 23.63                 | 23.65                 | 23.67                 |                              | 0        |
| 16QAM                          | 100     | 0         | 23.64                 | 23.60                 | 23.54                 | 0-1                          | 0        |
|                                | 1       | 0         | 23.89                 | 23.70                 | 23.86                 |                              | 0        |
|                                | 1       | 50        | 23.70                 | 23.79                 | 23.78                 |                              | 0        |
|                                | 1       | 99        | 23.76                 | 23.97                 | 23.81                 | 0-2                          | 0        |
|                                | 50      | 0         | 22.61                 | 22.56                 | 22.70                 |                              | 1        |
|                                | 50      | 25        | 22.73                 | 22.62                 | 22.76                 |                              | 1        |
| 64QAM                          | 50      | 50        | 22.65                 | 22.62                 | 22.61                 | 0-2                          | 1        |
|                                | 100     | 0         | 22.53                 | 22.58                 | 22.70                 |                              | 1        |
|                                | 1       | 0         | 22.81                 | 23.06                 | 22.73                 |                              | 0-2      |
|                                | 1       | 50        | 22.51                 | 22.81                 | 22.71                 | 1                            |          |
|                                | 1       | 99        | 22.34                 | 22.69                 | 22.96                 | 1                            |          |
|                                | 50      | 0         | 21.65                 | 21.63                 | 21.68                 | 0-3                          | 2        |
| 50                             | 25      | 21.57     | 21.62                 | 21.80                 | 2                     |                              |          |
| 50                             | 50      | 21.57     | 21.61                 | 21.62                 | 2                     |                              |          |
|                                | 100     | 0         | 21.68                 | 21.50                 | 21.56                 |                              | 2        |

**Table 9-79**  
**LTE Band 7 Measured  $P_{limit}$  for DSI = 6 (Dual Display Cover 0° or 360°) or DSI = 7 (Dual Display Cover 180°)**  
**-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         | 23.65                 | 23.55                 | 23.71                 | 0                            | 0        |
|                                | 1       | 36        | 23.67                 | 23.59                 | 23.79                 |                              | 0        |
|                                | 1       | 74        | 23.62                 | 23.53                 | 23.68                 |                              | 0        |
|                                | 36      | 0         | 23.77                 | 23.69                 | 23.71                 | 0-1                          | 0        |
|                                | 36      | 18        | 23.81                 | 23.69                 | 23.75                 |                              | 0        |
|                                | 36      | 37        | 23.78                 | 23.75                 | 23.77                 |                              | 0        |
|                                | 75      | 0         | 23.74                 | 23.59                 | 23.69                 |                              | 0        |
| 16QAM                          | 1       | 0         | 24.09                 | 23.60                 | 23.73                 | 0-1                          | 0        |
|                                | 1       | 36        | 24.14                 | 23.69                 | 23.79                 |                              | 0        |
|                                | 1       | 74        | 24.07                 | 23.62                 | 23.71                 |                              | 0        |
|                                | 36      | 0         | 22.62                 | 22.51                 | 22.48                 | 0-2                          | 1        |
|                                | 36      | 18        | 22.67                 | 22.56                 | 22.54                 |                              | 1        |
|                                | 36      | 37        | 22.59                 | 22.56                 | 22.57                 |                              | 1        |
|                                | 75      | 0         | 22.54                 | 22.60                 | 22.63                 |                              | 1        |
| 64QAM                          | 1       | 0         | 22.73                 | 22.79                 | 23.13                 | 0-2                          | 1        |
|                                | 1       | 36        | 22.60                 | 22.90                 | 23.41                 |                              | 1        |
|                                | 1       | 74        | 22.85                 | 22.67                 | 23.15                 |                              | 1        |
|                                | 36      | 0         | 21.70                 | 21.56                 | 21.58                 | 0-3                          | 2        |
|                                | 36      | 18        | 21.74                 | 21.62                 | 21.60                 |                              | 2        |
|                                | 36      | 37        | 21.31                 | 21.61                 | 21.64                 |                              | 2        |
|                                | 75      | 0         | 21.60                 | 21.43                 | 21.55                 |                              | 2        |

|                                         |                                                                                                                    |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       | <br>Proud to be part of element | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                 | DUT Type:<br>Portable Handset | Page 81 of 224                                                                        |                                 |

**Table 9-80**  
**LTE Band 7 Measured  $P_{limit}$  for DSI = 6 (Dual Display Cover 0° or 360°) or DSI = 7 (Dual Display Cover 180°)**  
**-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         | 23.68                 | 23.65                 | 23.70                 | 0                            | 0        |
|                                | 1       | 25        | 23.70                 | 23.65                 | 23.63                 |                              | 0        |
|                                | 1       | 49        | 23.68                 | 23.66                 | 23.67                 |                              | 0        |
|                                | 25      | 0         | 23.85                 | 23.76                 | 23.71                 | 0-1                          | 0        |
|                                | 25      | 12        | 23.87                 | 23.72                 | 23.78                 |                              | 0        |
|                                | 25      | 25        | 23.81                 | 23.77                 | 23.81                 |                              | 0        |
|                                | 50      | 0         | 23.77                 | 23.66                 | 23.68                 |                              | 0        |
| 16QAM                          | 1       | 0         | 24.15                 | 23.79                 | 23.56                 | 0-1                          | 0        |
|                                | 1       | 25        | 24.12                 | 23.79                 | 23.55                 |                              | 0        |
|                                | 1       | 49        | 24.15                 | 23.75                 | 23.58                 |                              | 0        |
|                                | 25      | 0         | 22.67                 | 22.61                 | 22.63                 | 0-2                          | 1        |
|                                | 25      | 12        | 22.61                 | 22.59                 | 22.70                 |                              | 1        |
|                                | 25      | 25        | 22.63                 | 22.67                 | 22.76                 |                              | 1        |
|                                | 50      | 0         | 22.54                 | 22.46                 | 22.55                 |                              | 1        |
| 64QAM                          | 1       | 0         | 22.81                 | 22.72                 | 22.59                 | 0-2                          | 1        |
|                                | 1       | 25        | 22.79                 | 22.81                 | 22.71                 |                              | 1        |
|                                | 1       | 49        | 23.00                 | 22.73                 | 22.32                 |                              | 1        |
|                                | 25      | 0         | 21.68                 | 21.55                 | 21.67                 | 0-3                          | 2        |
|                                | 25      | 12        | 21.74                 | 21.60                 | 21.72                 |                              | 2        |
|                                | 25      | 25        | 21.72                 | 21.63                 | 21.80                 |                              | 2        |
|                                | 50      | 0         | 21.59                 | 21.51                 | 21.54                 |                              | 2        |

**Table 9-81**  
**LTE Band 7 Measured  $P_{limit}$  for DSI = 6 (Dual Display Cover 0° or 360°) or DSI = 7 (Dual Display Cover 180°)**  
**-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         | 23.97                 | 24.08                 | 24.10                 | 0                            | 0        |
|                               | 1       | 12        | 23.98                 | 24.11                 | 24.12                 |                              | 0        |
|                               | 1       | 24        | 23.95                 | 24.14                 | 24.07                 |                              | 0        |
|                               | 12      | 0         | 24.11                 | 24.06                 | 24.17                 | 0-1                          | 0        |
|                               | 12      | 6         | 24.15                 | 24.11                 | 24.20                 |                              | 0        |
|                               | 12      | 13        | 24.07                 | 24.15                 | 24.15                 |                              | 0        |
|                               | 25      | 0         | 24.10                 | 24.06                 | 24.15                 |                              | 0        |
| 16QAM                         | 1       | 0         | 24.19                 | 24.02                 | 23.89                 | 0-1                          | 0        |
|                               | 1       | 12        | 24.17                 | 23.99                 | 24.10                 |                              | 0        |
|                               | 1       | 24        | 24.16                 | 23.97                 | 24.22                 |                              | 0        |
|                               | 12      | 0         | 22.59                 | 22.60                 | 22.74                 | 0-2                          | 1        |
|                               | 12      | 6         | 22.65                 | 22.64                 | 22.76                 |                              | 1        |
|                               | 12      | 13        | 22.61                 | 22.68                 | 22.70                 |                              | 1        |
|                               | 25      | 0         | 22.58                 | 22.60                 | 22.61                 |                              | 1        |
| 64QAM                         | 1       | 0         | 22.72                 | 22.76                 | 23.07                 | 0-2                          | 1        |
|                               | 1       | 12        | 22.75                 | 22.79                 | 22.89                 |                              | 1        |
|                               | 1       | 24        | 22.76                 | 22.78                 | 22.63                 |                              | 1        |
|                               | 12      | 0         | 21.56                 | 21.49                 | 21.75                 | 0-3                          | 2        |
|                               | 12      | 6         | 21.64                 | 21.54                 | 21.72                 |                              | 2        |
|                               | 12      | 13        | 21.59                 | 21.55                 | 21.54                 |                              | 2        |
|                               | 25      | 0         | 21.57                 | 21.52                 | 21.66                 |                              | 2        |

|                                         |                                                                                                                    |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       | <br>Proud to be part of element | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                 | DUT Type:<br>Portable Handset |                                                                                       | Page 82 of 224                  |

**Table 9-82**  
**LTE Band 7 Measured  $P_{limit}$  for DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 23.16                 | 22.61                 | 23.24                 | 0                            | 0        |
|                                | 1       | 50        | 23.18                 | 22.59                 | 23.18                 |                              | 0        |
|                                | 1       | 99        | 23.22                 | 22.60                 | 23.17                 |                              | 0        |
|                                | 50      | 0         | 23.16                 | 22.64                 | 23.23                 | 0-1                          | 0        |
|                                | 50      | 25        | 23.24                 | 22.67                 | 23.32                 |                              | 0        |
|                                | 50      | 50        | 23.23                 | 22.73                 | 23.24                 |                              | 0        |
|                                | 100     | 0         | 23.17                 | 22.58                 | 23.21                 |                              | 0        |
| 16QAM                          | 1       | 0         | 23.44                 | 22.88                 | 23.45                 | 0-1                          | 0        |
|                                | 1       | 50        | 23.42                 | 22.94                 | 23.40                 |                              | 0        |
|                                | 1       | 99        | 23.45                 | 22.94                 | 23.40                 |                              | 0        |
|                                | 50      | 0         | 22.88                 | 22.60                 | 22.92                 | 0-2                          | 0        |
|                                | 50      | 25        | 22.97                 | 22.62                 | 23.01                 |                              | 0        |
|                                | 50      | 50        | 22.92                 | 22.61                 | 22.98                 |                              | 0        |
|                                | 100     | 0         | 22.90                 | 22.54                 | 22.86                 |                              | 0        |
| 64QAM                          | 1       | 0         | 23.09                 | 23.50                 | 22.82                 | 0-2                          | 0        |
|                                | 1       | 50        | 22.89                 | 23.50                 | 23.26                 |                              | 0        |
|                                | 1       | 99        | 23.02                 | 22.93                 | 22.98                 |                              | 0        |
|                                | 50      | 0         | 21.89                 | 21.96                 | 22.01                 | 0-3                          | 1        |
|                                | 50      | 25        | 21.63                 | 21.97                 | 22.05                 |                              | 1        |
|                                | 50      | 50        | 21.46                 | 21.93                 | 22.04                 |                              | 1        |
|                                | 100     | 0         | 21.89                 | 21.61                 | 21.83                 |                              | 1        |

**Table 9-83**  
**LTE Band 7 Measured  $P_{limit}$  for DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 22.73                 | 22.60                 | 22.90                 | 0                            | 0        |
|                                | 1       | 36        | 22.72                 | 22.59                 | 22.87                 |                              | 0        |
|                                | 1       | 74        | 22.69                 | 22.61                 | 22.83                 |                              | 0        |
|                                | 36      | 0         | 22.88                 | 22.73                 | 22.81                 | 0-1                          | 0        |
|                                | 36      | 18        | 22.87                 | 22.73                 | 22.84                 |                              | 0        |
|                                | 36      | 37        | 22.83                 | 22.80                 | 22.86                 |                              | 0        |
|                                | 75      | 0         | 22.82                 | 22.66                 | 22.79                 |                              | 0        |
| 16QAM                          | 1       | 0         | 23.00                 | 23.22                 | 23.21                 | 0-1                          | 0        |
|                                | 1       | 36        | 22.98                 | 23.21                 | 23.16                 |                              | 0        |
|                                | 1       | 74        | 22.95                 | 23.21                 | 23.14                 |                              | 0        |
|                                | 36      | 0         | 22.78                 | 22.67                 | 22.75                 | 0-2                          | 0        |
|                                | 36      | 18        | 22.77                 | 22.71                 | 22.76                 |                              | 0        |
|                                | 36      | 37        | 22.73                 | 22.72                 | 22.83                 |                              | 0        |
|                                | 75      | 0         | 22.75                 | 22.64                 | 22.70                 |                              | 0        |
| 64QAM                          | 1       | 0         | 22.62                 | 22.63                 | 23.26                 | 0-2                          | 0        |
|                                | 1       | 36        | 22.63                 | 22.66                 | 23.24                 |                              | 0        |
|                                | 1       | 74        | 22.23                 | 22.67                 | 23.23                 |                              | 0        |
|                                | 36      | 0         | 21.90                 | 21.74                 | 21.77                 | 0-3                          | 1        |
|                                | 36      | 18        | 21.91                 | 21.72                 | 21.81                 |                              | 1        |
|                                | 36      | 37        | 21.88                 | 21.78                 | 21.82                 |                              | 1        |
|                                | 75      | 0         | 21.80                 | 21.69                 | 21.75                 |                              | 1        |

|                                         |                                                                                                                                                                                                |                               |                                                                                       |                                 |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       | <br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                             | DUT Type:<br>Portable Handset | Page 83 of 224                                                                        |                                 |

**Table 9-84**  
**LTE Band 7 Measured  $P_{limit}$  for DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 22.92                 | 22.86                 | 22.83                 | 0                            | 0        |
|                                | 1       | 25        | 22.70                 | 22.83                 | 22.77                 |                              | 0        |
|                                | 1       | 49        | 22.77                 | 22.77                 | 22.78                 |                              | 0        |
|                                | 25      | 0         | 22.91                 | 22.84                 | 22.87                 | 0-1                          | 0        |
|                                | 25      | 12        | 22.90                 | 22.84                 | 22.90                 |                              | 0        |
|                                | 25      | 25        | 22.88                 | 22.89                 | 22.93                 |                              | 0        |
|                                | 50      | 0         | 22.83                 | 22.81                 | 22.80                 |                              | 0        |
| 16QAM                          | 1       | 0         | 23.02                 | 23.35                 | 22.84                 | 0-1                          | 0        |
|                                | 1       | 25        | 23.03                 | 23.30                 | 23.22                 |                              | 0        |
|                                | 1       | 49        | 22.98                 | 23.32                 | 22.88                 |                              | 0        |
|                                | 25      | 0         | 22.83                 | 22.79                 | 22.81                 | 0-2                          | 0        |
|                                | 25      | 12        | 22.86                 | 22.81                 | 22.80                 |                              | 0        |
|                                | 25      | 25        | 22.81                 | 22.88                 | 22.86                 |                              | 0        |
|                                | 50      | 0         | 22.73                 | 22.69                 | 22.71                 |                              | 0        |
| 64QAM                          | 1       | 0         | 22.81                 | 22.86                 | 22.88                 | 0-2                          | 0        |
|                                | 1       | 25        | 22.70                 | 22.79                 | 22.91                 |                              | 0        |
|                                | 1       | 49        | 22.59                 | 22.88                 | 22.96                 |                              | 0        |
|                                | 25      | 0         | 21.92                 | 21.82                 | 21.83                 | 0-3                          | 1        |
|                                | 25      | 12        | 21.90                 | 21.80                 | 21.87                 |                              | 1        |
|                                | 25      | 25        | 21.84                 | 21.83                 | 21.88                 |                              | 1        |
|                                | 50      | 0         | 21.81                 | 21.69                 | 21.76                 |                              | 1        |

**Table 9-85**  
**LTE Band 7 Measured  $P_{limit}$  for DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 22.83                 | 22.93                 | 23.00                 | 0                            | 0        |
|                               | 1       | 12        | 22.80                 | 22.93                 | 22.95                 |                              | 0        |
|                               | 1       | 24        | 22.80                 | 22.94                 | 22.95                 |                              | 0        |
|                               | 12      | 0         | 22.91                 | 22.91                 | 22.97                 | 0-1                          | 0        |
|                               | 12      | 6         | 22.96                 | 22.91                 | 23.05                 |                              | 0        |
|                               | 12      | 13        | 22.85                 | 22.92                 | 22.95                 |                              | 0        |
|                               | 25      | 0         | 22.93                 | 22.91                 | 22.97                 |                              | 0        |
| 16QAM                         | 1       | 0         | 23.22                 | 23.01                 | 23.35                 | 0-1                          | 0        |
|                               | 1       | 12        | 23.14                 | 23.02                 | 23.32                 |                              | 0        |
|                               | 1       | 24        | 23.24                 | 23.06                 | 23.31                 |                              | 0        |
|                               | 12      | 0         | 22.82                 | 22.75                 | 23.03                 | 0-2                          | 0        |
|                               | 12      | 6         | 22.87                 | 22.83                 | 23.08                 |                              | 0        |
|                               | 12      | 13        | 22.79                 | 22.80                 | 23.06                 |                              | 0        |
|                               | 25      | 0         | 22.88                 | 22.80                 | 22.87                 |                              | 0        |
| 64QAM                         | 1       | 0         | 22.95                 | 23.14                 | 23.02                 | 0-2                          | 0        |
|                               | 1       | 12        | 22.91                 | 23.16                 | 23.01                 |                              | 0        |
|                               | 1       | 24        | 22.97                 | 23.17                 | 22.98                 |                              | 0        |
|                               | 12      | 0         | 21.91                 | 21.86                 | 21.89                 | 0-3                          | 1        |
|                               | 12      | 6         | 21.95                 | 21.92                 | 21.89                 |                              | 1        |
|                               | 12      | 13        | 21.90                 | 21.91                 | 21.84                 |                              | 1        |
|                               | 25      | 0         | 21.83                 | 21.83                 | 21.88                 |                              | 1        |

|                                         |                                                                                                                                                 |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset | Page 84 of 224                                                                        |                                 |

## 9.4.11

## LTE Band 41

**Table 9-86**  
**LTE Band 41 Measured  $P_{max}$  – 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         | 24.75                 | 24.80                 | 24.56                 | 24.74                 | 24.80                 | 0                            | 0        |
|                                 | 1       | 50        | 24.79                 | 24.78                 | 25.01                 | 24.96                 | 25.24                 |                              | 0        |
|                                 | 1       | 99        | 24.74                 | 24.87                 | 24.75                 | 24.57                 | 25.19                 |                              | 0        |
|                                 | 50      | 0         | 23.82                 | 23.84                 | 23.94                 | 24.01                 | 24.06                 | 0-1                          | 1        |
|                                 | 50      | 25        | 23.88                 | 23.94                 | 24.03                 | 24.12                 | 24.31                 |                              | 1        |
|                                 | 50      | 50        | 23.89                 | 23.91                 | 24.05                 | 24.00                 | 24.30                 |                              | 1        |
|                                 | 100     | 0         | 23.87                 | 23.82                 | 23.94                 | 24.02                 | 24.13                 |                              | 1        |
| 16QAM                           | 1       | 0         | 23.85                 | 23.65                 | 23.47                 | 23.77                 | 23.61                 | 0-1                          | 1        |
|                                 | 1       | 50        | 23.80                 | 23.65                 | 23.82                 | 24.04                 | 24.03                 |                              | 1        |
|                                 | 1       | 99        | 23.84                 | 23.61                 | 23.58                 | 23.61                 | 23.96                 |                              | 1        |
|                                 | 50      | 0         | 22.84                 | 22.78                 | 22.88                 | 22.99                 | 23.02                 | 0-2                          | 2        |
|                                 | 50      | 25        | 22.93                 | 22.88                 | 23.01                 | 23.12                 | 23.26                 |                              | 2        |
|                                 | 50      | 50        | 22.91                 | 22.86                 | 23.00                 | 22.96                 | 23.25                 |                              | 2        |
|                                 | 100     | 0         | 22.80                 | 22.81                 | 22.95                 | 23.04                 | 23.12                 |                              | 2        |
| 64QAM                           | 1       | 0         | 22.48                 | 22.82                 | 22.60                 | 22.48                 | 22.82                 | 0-2                          | 2        |
|                                 | 1       | 50        | 22.62                 | 22.89                 | 23.05                 | 22.83                 | 23.23                 |                              | 2        |
|                                 | 1       | 99        | 22.60                 | 22.92                 | 22.87                 | 22.42                 | 23.18                 |                              | 2        |
|                                 | 50      | 0         | 21.88                 | 21.88                 | 21.92                 | 22.01                 | 22.12                 | 0-3                          | 3        |
|                                 | 50      | 25        | 21.99                 | 21.92                 | 22.02                 | 22.19                 | 22.36                 |                              | 3        |
|                                 | 50      | 50        | 21.94                 | 21.94                 | 22.04                 | 22.04                 | 22.31                 |                              | 3        |
|                                 | 100     | 0         | 21.88                 | 21.81                 | 21.93                 | 22.05                 | 22.15                 |                              | 3        |

**Table 9-87**  
**LTE Band 41 Measured  $P_{max}$  – 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         | 24.91                 | 24.63                 | 24.84                 | 24.89                 | 24.91                 | 0                            | 0        |
|                                 | 1       | 36        | 24.97                 | 24.90                 | 25.14                 | 25.04                 | 25.25                 |                              | 0        |
|                                 | 1       | 74        | 24.88                 | 24.66                 | 24.89                 | 24.86                 | 25.15                 |                              | 0        |
|                                 | 36      | 0         | 23.91                 | 23.86                 | 23.98                 | 24.01                 | 24.05                 | 0-1                          | 1        |
|                                 | 36      | 18        | 24.03                 | 24.03                 | 24.06                 | 24.10                 | 24.20                 |                              | 1        |
|                                 | 36      | 37        | 23.98                 | 23.94                 | 24.10                 | 24.06                 | 24.25                 |                              | 1        |
|                                 | 75      | 0         | 23.93                 | 23.91                 | 23.97                 | 24.05                 | 24.14                 |                              | 1        |
| 16QAM                           | 1       | 0         | 23.81                 | 23.80                 | 23.74                 | 24.05                 | 23.80                 | 0-1                          | 1        |
|                                 | 1       | 36        | 23.86                 | 24.06                 | 24.12                 | 24.22                 | 24.08                 |                              | 1        |
|                                 | 1       | 74        | 23.83                 | 23.78                 | 23.80                 | 24.06                 | 24.03                 |                              | 1        |
|                                 | 36      | 0         | 22.97                 | 22.92                 | 23.02                 | 23.00                 | 23.08                 | 0-2                          | 2        |
|                                 | 36      | 18        | 23.08                 | 23.07                 | 23.14                 | 23.03                 | 23.25                 |                              | 2        |
|                                 | 36      | 37        | 23.05                 | 22.97                 | 23.16                 | 23.01                 | 23.30                 |                              | 2        |
|                                 | 75      | 0         | 22.95                 | 22.90                 | 22.96                 | 23.03                 | 23.14                 |                              | 2        |
| 64QAM                           | 1       | 0         | 22.64                 | 22.85                 | 22.60                 | 22.83                 | 22.64                 | 0-2                          | 2        |
|                                 | 1       | 36        | 22.76                 | 23.12                 | 22.91                 | 22.97                 | 23.01                 |                              | 2        |
|                                 | 1       | 74        | 22.71                 | 22.87                 | 22.73                 | 22.67                 | 22.93                 |                              | 2        |
|                                 | 36      | 0         | 21.90                 | 21.91                 | 21.97                 | 22.03                 | 22.02                 | 0-3                          | 3        |
|                                 | 36      | 18        | 22.02                 | 22.08                 | 22.10                 | 22.08                 | 22.19                 |                              | 3        |
|                                 | 36      | 37        | 22.01                 | 21.99                 | 22.11                 | 22.04                 | 22.26                 |                              | 3        |
|                                 | 75      | 0         | 21.94                 | 21.95                 | 21.99                 | 22.07                 | 22.20                 |                              | 3        |

|                                         |                                                                                                                                  |                               |                                                                                                 |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset | Page 85 of 224                                                                                  |                                 |

**Table 9-88**  
**LTE Band 41 Measured  $P_{max}$  – 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         | 25.04                 | 24.92                 | 24.99                 | 24.84                 | 24.98                 | 0                            | 0        |
|                                 | 1       | 25        | 25.00                 | 25.14                 | 25.20                 | 25.12                 | 25.28                 |                              | 0        |
|                                 | 1       | 49        | 25.00                 | 25.07                 | 24.94                 | 24.88                 | 25.04                 |                              | 0        |
|                                 | 25      | 0         | 23.96                 | 23.99                 | 24.11                 | 24.07                 | 24.11                 | 0-1                          | 1        |
|                                 | 25      | 12        | 24.06                 | 24.08                 | 24.15                 | 24.14                 | 24.30                 |                              | 1        |
|                                 | 25      | 25        | 24.03                 | 24.02                 | 24.12                 | 24.11                 | 24.18                 |                              | 1        |
|                                 | 50      | 0         | 23.97                 | 24.05                 | 24.07                 | 24.11                 | 24.22                 |                              | 1        |
| 16QAM                           | 1       | 0         | 23.90                 | 24.14                 | 23.81                 | 24.06                 | 23.89                 | 0-1                          | 1        |
|                                 | 1       | 25        | 23.85                 | 24.15                 | 24.07                 | 24.31                 | 24.10                 |                              | 1        |
|                                 | 1       | 49        | 23.88                 | 24.06                 | 23.84                 | 24.12                 | 23.83                 |                              | 1        |
|                                 | 25      | 0         | 22.89                 | 22.96                 | 23.01                 | 23.12                 | 23.08                 | 0-2                          | 2        |
|                                 | 25      | 12        | 23.00                 | 23.16                 | 23.11                 | 23.11                 | 23.24                 |                              | 2        |
|                                 | 25      | 25        | 22.96                 | 23.05                 | 23.07                 | 23.13                 | 23.11                 |                              | 2        |
|                                 | 50      | 0         | 22.92                 | 23.03                 | 23.03                 | 23.10                 | 23.15                 |                              | 2        |
| 64QAM                           | 1       | 0         | 22.81                 | 23.32                 | 22.77                 | 22.78                 | 22.77                 | 0-2                          | 2        |
|                                 | 1       | 25        | 22.86                 | 23.45                 | 23.08                 | 23.10                 | 23.11                 |                              | 2        |
|                                 | 1       | 49        | 22.87                 | 23.16                 | 22.80                 | 22.84                 | 22.88                 |                              | 2        |
|                                 | 25      | 0         | 22.01                 | 21.95                 | 22.08                 | 22.06                 | 22.17                 | 0-3                          | 3        |
|                                 | 25      | 12        | 22.08                 | 22.06                 | 22.17                 | 22.12                 | 22.32                 |                              | 3        |
|                                 | 25      | 25        | 22.04                 | 21.95                 | 22.13                 | 22.12                 | 22.21                 |                              | 3        |
|                                 | 50      | 0         | 21.99                 | 22.01                 | 22.08                 | 22.14                 | 22.24                 |                              | 3        |

**Table 9-89**  
**LTE Band 41 Measured  $P_{max}$  – 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         | 24.97                 | 25.03                 | 25.14                 | 25.05                 | 25.20                 | 0                            | 0        |
|                                | 1       | 12        | 25.02                 | 25.06                 | 25.18                 | 25.13                 | 25.25                 |                              | 0        |
|                                | 1       | 24        | 25.01                 | 25.08                 | 25.15                 | 25.09                 | 25.28                 |                              | 0        |
|                                | 12      | 0         | 24.01                 | 24.14                 | 24.14                 | 24.13                 | 24.18                 | 0-1                          | 1        |
|                                | 12      | 6         | 24.03                 | 24.08                 | 24.15                 | 24.27                 | 24.31                 |                              | 1        |
|                                | 12      | 13        | 24.00                 | 24.10                 | 24.18                 | 24.18                 | 24.28                 |                              | 1        |
|                                | 25      | 0         | 23.98                 | 24.13                 | 24.12                 | 24.23                 | 24.28                 |                              | 1        |
| 16QAM                          | 1       | 0         | 24.08                 | 24.42                 | 24.26                 | 24.09                 | 24.31                 | 0-1                          | 1        |
|                                | 1       | 12        | 24.10                 | 24.44                 | 24.26                 | 24.16                 | 24.37                 |                              | 1        |
|                                | 1       | 24        | 24.11                 | 24.45                 | 24.29                 | 24.16                 | 24.37                 |                              | 1        |
|                                | 12      | 0         | 23.03                 | 23.06                 | 23.16                 | 23.24                 | 23.21                 | 0-2                          | 2        |
|                                | 12      | 6         | 23.04                 | 23.07                 | 23.18                 | 23.34                 | 23.28                 |                              | 2        |
|                                | 12      | 13        | 23.03                 | 23.09                 | 23.16                 | 23.30                 | 23.22                 |                              | 2        |
|                                | 25      | 0         | 23.00                 | 23.08                 | 23.11                 | 23.24                 | 23.22                 |                              | 2        |
| 64QAM                          | 1       | 0         | 22.83                 | 22.88                 | 23.05                 | 23.22                 | 23.09                 | 0-2                          | 2        |
|                                | 1       | 12        | 22.89                 | 22.93                 | 23.09                 | 23.32                 | 23.16                 |                              | 2        |
|                                | 1       | 24        | 22.90                 | 22.91                 | 23.06                 | 23.26                 | 23.09                 |                              | 2        |
|                                | 12      | 0         | 22.04                 | 22.12                 | 22.19                 | 22.18                 | 22.21                 | 0-3                          | 3        |
|                                | 12      | 6         | 22.06                 | 22.16                 | 22.14                 | 22.21                 | 22.30                 |                              | 3        |
|                                | 12      | 13        | 22.06                 | 22.17                 | 22.20                 | 22.23                 | 22.28                 |                              | 3        |
|                                | 25      | 0         | 21.98                 | 22.11                 | 22.14                 | 22.22                 | 22.25                 |                              | 3        |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 86 of 224                                                                        |                                 |

Table 9-90

**LTE Band 41 Measured  $P_{limit}$  for DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 24.77                 | 24.76                 | 24.57                 | 24.69                 | 24.73                 | 0                            | 0        |
|                                 | 1       | 50        | 24.78                 | 24.80                 | 24.91                 | 24.87                 | 24.94                 |                              | 0        |
|                                 | 1       | 99        | 24.81                 | 24.82                 | 24.66                 | 24.58                 | 24.88                 |                              | 0        |
|                                 | 50      | 0         | 24.23                 | 24.23                 | 24.21                 | 24.29                 | 24.28                 | 0-1                          | 0.5      |
|                                 | 50      | 25        | 24.32                 | 24.26                 | 24.35                 | 24.39                 | 24.50                 |                              | 0.5      |
|                                 | 50      | 50        | 24.38                 | 24.38                 | 24.31                 | 24.26                 | 24.47                 |                              | 0.5      |
|                                 | 100     | 0         | 24.28                 | 24.30                 | 24.22                 | 24.31                 | 24.38                 |                              | 0.5      |
| 16QAM                           | 1       | 0         | 24.13                 | 24.02                 | 23.96                 | 24.13                 | 24.17                 | 0-1                          | 0.5      |
|                                 | 1       | 50        | 24.11                 | 24.00                 | 24.31                 | 24.45                 | 24.46                 |                              | 0.5      |
|                                 | 1       | 99        | 24.12                 | 24.04                 | 24.04                 | 24.01                 | 24.48                 |                              | 0.5      |
|                                 | 50      | 0         | 23.11                 | 23.15                 | 23.20                 | 23.21                 | 23.30                 | 0-2                          | 1.5      |
|                                 | 50      | 25        | 23.21                 | 23.25                 | 23.32                 | 23.44                 | 23.50                 |                              | 1.5      |
|                                 | 50      | 50        | 23.22                 | 23.20                 | 23.33                 | 23.31                 | 23.49                 |                              | 1.5      |
|                                 | 100     | 0         | 23.17                 | 23.13                 | 23.25                 | 23.30                 | 23.39                 |                              | 1.5      |
| 64QAM                           | 1       | 0         | 22.78                 | 23.21                 | 22.62                 | 22.96                 | 22.89                 | 0-2                          | 1.5      |
|                                 | 1       | 50        | 22.83                 | 23.27                 | 23.08                 | 23.27                 | 23.39                 |                              | 1.5      |
|                                 | 1       | 99        | 22.92                 | 23.28                 | 22.81                 | 22.87                 | 23.30                 |                              | 1.5      |
|                                 | 50      | 0         | 22.14                 | 22.18                 | 22.23                 | 22.28                 | 22.37                 | 0-3                          | 2.5      |
|                                 | 50      | 25        | 22.25                 | 22.25                 | 22.38                 | 22.42                 | 22.50                 |                              | 2.5      |
|                                 | 50      | 50        | 22.22                 | 22.23                 | 22.36                 | 22.30                 | 22.48                 |                              | 2.5      |
|                                 | 100     | 0         | 22.10                 | 22.19                 | 22.32                 | 22.32                 | 22.42                 |                              | 2.5      |

Table 9-91

**LTE Band 41 Measured  $P_{limit}$  for DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 24.51                 | 24.22                 | 24.35                 | 24.48                 | 24.37                 | 0                            | 0        |
|                                 | 1       | 36        | 24.48                 | 24.36                 | 24.53                 | 24.55                 | 24.64                 |                              | 0        |
|                                 | 1       | 74        | 24.44                 | 24.13                 | 24.39                 | 24.32                 | 24.63                 |                              | 0        |
|                                 | 36      | 0         | 24.13                 | 23.97                 | 24.04                 | 24.10                 | 24.09                 | 0-1                          | 0.5      |
|                                 | 36      | 18        | 24.21                 | 24.06                 | 24.09                 | 24.19                 | 24.21                 |                              | 0.5      |
|                                 | 36      | 37        | 24.18                 | 24.00                 | 24.15                 | 24.11                 | 24.47                 |                              | 0.5      |
|                                 | 75      | 0         | 24.12                 | 23.97                 | 24.02                 | 24.10                 | 24.14                 |                              | 0.5      |
| 16QAM                           | 1       | 0         | 24.23                 | 23.94                 | 23.94                 | 24.11                 | 24.05                 | 0-1                          | 0.5      |
|                                 | 1       | 36        | 24.21                 | 24.08                 | 24.18                 | 24.21                 | 24.31                 |                              | 0.5      |
|                                 | 1       | 74        | 24.16                 | 23.87                 | 24.06                 | 23.97                 | 24.31                 |                              | 0.5      |
|                                 | 36      | 0         | 23.22                 | 23.06                 | 23.01                 | 23.10                 | 23.10                 | 0-2                          | 1.5      |
|                                 | 36      | 18        | 23.30                 | 23.15                 | 23.09                 | 23.20                 | 23.20                 |                              | 1.5      |
|                                 | 36      | 37        | 23.29                 | 23.08                 | 23.12                 | 23.10                 | 23.27                 |                              | 1.5      |
|                                 | 75      | 0         | 23.13                 | 23.00                 | 23.05                 | 23.15                 | 23.16                 |                              | 1.5      |
| 64QAM                           | 1       | 0         | 23.35                 | 23.11                 | 22.84                 | 22.94                 | 22.86                 | 0-2                          | 1.5      |
|                                 | 1       | 36        | 23.37                 | 23.26                 | 23.04                 | 23.06                 | 23.11                 |                              | 1.5      |
|                                 | 1       | 74        | 23.36                 | 23.04                 | 22.95                 | 22.85                 | 23.15                 |                              | 1.5      |
|                                 | 36      | 0         | 22.16                 | 22.02                 | 22.07                 | 22.12                 | 22.14                 | 0-3                          | 2.5      |
|                                 | 36      | 18        | 22.24                 | 22.13                 | 22.11                 | 22.21                 | 22.24                 |                              | 2.5      |
|                                 | 36      | 37        | 22.23                 | 22.02                 | 22.13                 | 22.13                 | 22.31                 |                              | 2.5      |
|                                 | 75      | 0         | 22.17                 | 22.01                 | 22.06                 | 22.16                 | 22.13                 |                              | 2.5      |

|                                         |                                                                                                                                  |                               |                                                                                                 |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset | Page 87 of 224                                                                                  |                                 |

Table 9-92

**LTE Band 41 Measured  $P_{limit}$  for DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor active) - 10 MHz Bandwidth**

| LTE Band 41      |         |           |                       |                       |                       |                       |                       |                           |          |
|------------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------------|----------|
| 10 MHz Bandwidth |         |           |                       |                       |                       |                       |                       |                           |          |
| Modulation       | RB Size | RB Offset | Low Channel           | Low-Mid Channel       | Mid Channel           | Mid-High Channel      | High Channel          | MPR Allowed per 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         | 24.60                 | 24.38                 | 24.30                 | 24.39                 | 24.44                 | 0                         | 0        |
|                  | 1       | 25        | 24.59                 | 24.57                 | 24.53                 | 24.63                 | 24.69                 |                           | 0        |
|                  | 1       | 49        | 24.54                 | 24.40                 | 24.28                 | 24.63                 | 24.37                 |                           | 0        |
|                  | 25      | 0         | 24.17                 | 24.09                 | 24.08                 | 24.13                 | 24.18                 | 0-1                       | 0.5      |
|                  | 25      | 12        | 24.29                 | 24.23                 | 24.15                 | 24.27                 | 24.20                 |                           | 0.5      |
|                  | 25      | 25        | 24.20                 | 24.14                 | 24.13                 | 24.19                 | 24.17                 |                           | 0.5      |
|                  | 50      | 0         | 24.16                 | 24.11                 | 24.07                 | 24.17                 | 24.19                 |                           | 0.5      |
| 16QAM            | 1       | 0         | 24.28                 | 23.85                 | 24.08                 | 23.89                 | 23.99                 | 0-1                       | 0.5      |
|                  | 1       | 25        | 24.22                 | 24.04                 | 24.31                 | 24.14                 | 24.15                 |                           | 0.5      |
|                  | 1       | 49        | 24.24                 | 23.91                 | 24.08                 | 23.95                 | 23.86                 |                           | 0.5      |
|                  | 25      | 0         | 23.17                 | 23.09                 | 23.08                 | 23.13                 | 23.15                 | 0-2                       | 1.5      |
|                  | 25      | 12        | 23.27                 | 23.25                 | 23.16                 | 23.27                 | 23.23                 |                           | 1.5      |
|                  | 25      | 25        | 23.22                 | 23.11                 | 23.12                 | 23.16                 | 23.21                 |                           | 1.5      |
|                  | 50      | 0         | 23.13                 | 23.16                 | 23.03                 | 23.20                 | 23.22                 |                           | 1.5      |
| 64QAM            | 1       | 0         | 23.16                 | 22.97                 | 23.01                 | 23.01                 | 23.06                 | 0-2                       | 1.5      |
|                  | 1       | 25        | 23.21                 | 23.26                 | 23.30                 | 23.31                 | 23.34                 |                           | 1.5      |
|                  | 1       | 49        | 23.17                 | 23.00                 | 23.03                 | 23.14                 | 23.05                 |                           | 1.5      |
|                  | 25      | 0         | 22.16                 | 22.03                 | 22.10                 | 22.03                 | 22.08                 | 0-3                       | 2.5      |
|                  | 25      | 12        | 22.24                 | 22.15                 | 22.18                 | 22.20                 | 22.11                 |                           | 2.5      |
|                  | 25      | 25        | 22.19                 | 22.02                 | 22.10                 | 22.11                 | 22.09                 |                           | 2.5      |
|                  | 50      | 0         | 22.16                 | 22.14                 | 22.07                 | 22.23                 | 22.19                 |                           | 2.5      |

Table 9-93

**LTE Band 41 Measured  $P_{limit}$  for DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 24.54                 | 24.49                 | 24.50                 | 24.55                 | 24.55                 | 0                            | 0        |
|                                | 1       | 12        | 24.50                 | 24.48                 | 24.53                 | 24.52                 | 24.61                 |                              | 0        |
|                                | 1       | 24        | 24.59                 | 24.47                 | 24.51                 | 24.55                 | 24.62                 |                              | 0        |
|                                | 12      | 0         | 24.23                 | 24.22                 | 24.15                 | 24.23                 | 24.24                 | 0-1                          | 0.5      |
|                                | 12      | 6         | 24.24                 | 24.20                 | 24.21                 | 24.28                 | 24.29                 |                              | 0.5      |
|                                | 12      | 13        | 24.23                 | 24.15                 | 24.16                 | 24.25                 | 24.27                 |                              | 0.5      |
|                                | 25      | 0         | 24.22                 | 24.21                 | 24.13                 | 24.25                 | 24.22                 |                              | 0.5      |
| 16QAM                          | 1       | 0         | 24.20                 | 24.15                 | 24.14                 | 24.28                 | 24.26                 | 0-1                          | 0.5      |
|                                | 1       | 12        | 24.14                 | 24.12                 | 24.18                 | 24.16                 | 24.26                 |                              | 0.5      |
|                                | 1       | 24        | 24.27                 | 24.15                 | 24.20                 | 24.20                 | 24.29                 |                              | 0.5      |
|                                | 12      | 0         | 23.36                 | 23.29                 | 23.23                 | 23.35                 | 23.33                 | 0-2                          | 1.5      |
|                                | 12      | 6         | 23.38                 | 23.31                 | 23.29                 | 23.40                 | 23.44                 |                              | 1.5      |
|                                | 12      | 13        | 23.35                 | 23.29                 | 23.29                 | 23.37                 | 23.39                 |                              | 1.5      |
|                                | 25      | 0         | 23.20                 | 23.22                 | 23.13                 | 23.26                 | 23.23                 |                              | 1.5      |
| 64QAM                          | 1       | 0         | 23.40                 | 23.33                 | 23.37                 | 23.46                 | 23.44                 | 0-2                          | 1.5      |
|                                | 1       | 12        | 23.41                 | 23.37                 | 23.40                 | 23.42                 | 23.48                 |                              | 1.5      |
|                                | 1       | 24        | 23.39                 | 23.36                 | 23.34                 | 23.42                 | 23.46                 |                              | 1.5      |
|                                | 12      | 0         | 22.24                 | 22.26                 | 22.16                 | 22.26                 | 22.28                 | 0-3                          | 2.5      |
|                                | 12      | 6         | 22.25                 | 22.22                 | 22.21                 | 22.30                 | 22.33                 |                              | 2.5      |
|                                | 12      | 13        | 22.24                 | 22.19                 | 22.20                 | 22.25                 | 22.27                 |                              | 2.5      |
|                                | 25      | 0         | 22.23                 | 22.18                 | 22.11                 | 22.23                 | 22.22                 |                              | 2.5      |

|                                         |                                                                                                                                  |                               |                                                                                       |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset |                                                                                       | Page 88 of 224                  |

## 9.4.12 LTE Uplink Carrier Aggregation Conducted Powers

**Table 9-94**  
**LTE Band 5 Uplink Carrier Aggregation Measured  $P_{max}$**

| 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          | 49               | LTE B5   | 5                   | 20597          | 843.7                  | 2597           | 888.7                  | QPSK       | 1          | 0                | 25.14                                 | 24.97                             |  |

### Notes:

1. This device supports uplink carrier aggregation for LTE CA\_5B 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: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset |                                                                                       | Page 89 of 224                  |

## 9.5 NR Conducted Powers

### 9.5.1 NR Band n71

Table 9-95  
NR Band n71 Measured  $P_{max}$  - 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><br>Conducted<br>Power [dBm] |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 24.08                                                 | 0                                  | 0           |
|                                 | 1       | 53        | 24.06                                                 |                                    | 0           |
|                                 | 1       | 104       | 23.91                                                 |                                    | 0           |
|                                 | 50      | 0         | 24.03                                                 | 0-0.5                              | 0           |
|                                 | 50      | 28        | 24.00                                                 | 0                                  | 0           |
|                                 | 50      | 56        | 23.91                                                 | 0-0.5                              | 0           |
|                                 | 100     | 0         | 24.00                                                 |                                    | 0           |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | <b>24.04</b>                                          | 0                                  | 0           |
|                                 | 1       | 53        | 24.02                                                 |                                    | 0           |
|                                 | 1       | 104       | 23.93                                                 |                                    | 0           |
|                                 | 50      | 0         | 23.04                                                 | 0-1                                | 1           |
|                                 | 50      | 28        | <b>24.06</b>                                          | 0                                  | 0           |
|                                 | 50      | 56        | 22.93                                                 | 0-1                                | 1           |
|                                 | 100     | 0         | 23.03                                                 |                                    | 1           |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 22.70                                                 | 0-1                                | 1           |
| CP-OFDM<br>QPSK                 | 1       | 1         | 22.13                                                 | 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: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 90 of 224                  |

**Table 9-96**  
**NR Band n71 Measured  $P_{max}$  - 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)    |                                    |             |
|                                 |         |           | Conducted<br>Power [dBm] |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK      | 1       | 1         | 24.08                    | 0                                  | 0           |
|                                 | 1       | 40        | 24.01                    |                                    | 0           |
|                                 | 1       | 77        | 24.03                    |                                    | 0           |
|                                 | 36      | 0         | 24.05                    | 0-0.5                              | 0           |
|                                 | 36      | 22        | 24.01                    | 0                                  | 0           |
|                                 | 36      | 43        | 23.97                    | 0-0.5                              | 0           |
|                                 | 75      | 0         | 24.02                    |                                    | 0           |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 24.16                    | 0                                  | 0           |
|                                 | 1       | 40        | 24.07                    |                                    | 0           |
|                                 | 1       | 77        | 23.96                    |                                    | 0           |
|                                 | 36      | 0         | 23.03                    | 0-1                                | 1           |
|                                 | 36      | 22        | 23.96                    | 0                                  | 0           |
|                                 | 36      | 43        | 22.93                    | 0-1                                | 1           |
|                                 | 75      | 0         | 23.00                    |                                    | 1           |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 22.86                    | 0-1                                | 1           |
| CP-OFDM<br>QPSK                 | 1       | 1         | 22.20                    | 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: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset |                                                                                       | Page 91 of 224                  |

**Table 9-97**  
**NR Band n71 Measured  $P_{max}$  - 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         | 23.91                 | 24.08                 | 24.05               | 0                                  | 0           |
|                            | 1       | 26        | 23.99                 | 24.09                 | 24.04               |                                    | 0           |
|                            | 1       | 50        | 24.09                 | 24.04                 | 23.95               |                                    | 0           |
|                            | 25      | 0         | 23.99                 | 24.01                 | 24.01               | 0-0.5                              | 0           |
|                            | 25      | 14        | 24.03                 | 24.04                 | 24.02               | 0                                  | 0           |
|                            | 25      | 27        | 23.98                 | 23.95                 | 23.98               | 0-0.5                              | 0           |
|                            | 50      | 0         | 24.02                 | 24.02                 | 23.99               |                                    | 0           |
| DFT-s-OFDM<br>QPSK         | 1       | 1         | 24.03                 | 24.06                 | 24.01               | 0                                  | 0           |
|                            | 1       | 26        | 24.02                 | 24.08                 | 24.03               |                                    | 0           |
|                            | 1       | 50        | 23.98                 | 24.01                 | 23.97               |                                    | 0           |
|                            | 25      | 0         | 22.97                 | 22.94                 | 22.98               | 0-1                                | 1           |
|                            | 25      | 14        | 24.06                 | 24.06                 | 23.99               | 0                                  | 0           |
|                            | 25      | 27        | 22.93                 | 22.96                 | 22.98               | 0-1                                | 1           |
|                            | 50      | 0         | 23.03                 | 23.07                 | 23.02               |                                    | 1           |
| DFT-s-OFDM<br>16QAM        | 1       | 1         | 22.75                 | 22.72                 | 22.67               | 0-1                                | 1           |
| CP-OFDM<br>QPSK            | 1       | 1         | 22.06                 | 22.03                 | 22.00               | 0-1.5                              | 1.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 92 of 224                  |

**Table 9-98**  
**NR Band n71 Measured  $P_{max}$  - 5 MHz Bandwidth**  
**NR Band n71**  
**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         | 23.93                 | 24.05                 | 24.08                 | 0                                  | 0           |
|                            | 1       | 13        | 23.94                 | 24.10                 | 23.99                 |                                    | 0           |
|                            | 1       | 23        | 23.74                 | 24.07                 | 23.89                 |                                    | 0           |
|                            | 12      | 0         | 24.04                 | 24.06                 | 24.00                 | 0-0.5                              | 0           |
|                            | 12      | 7         | 23.97                 | 24.07                 | 23.96                 | 0                                  | 0           |
|                            | 12      | 13        | 23.95                 | 23.96                 | 23.88                 | 0-0.5                              | 0           |
|                            | 25      | 0         | 23.98                 | 24.04                 | 23.94                 |                                    | 0           |
| DFT-s-OFDM<br>QPSK         | 1       | 1         | 24.02                 | 24.08                 | 24.05                 | 0                                  | 0           |
|                            | 1       | 13        | 24.03                 | 24.05                 | 24.01                 |                                    | 0           |
|                            | 1       | 23        | 24.00                 | 23.96                 | 23.88                 |                                    | 0           |
|                            | 12      | 0         | 23.05                 | 23.03                 | 23.00                 | 0-1                                | 1           |
|                            | 12      | 7         | 23.99                 | 24.02                 | 23.95                 | 0                                  | 0           |
|                            | 12      | 13        | 22.98                 | 22.89                 | 22.83                 | 0-1                                | 1           |
|                            | 25      | 0         | 22.97                 | 23.03                 | 22.97                 |                                    | 1           |
| DFT-s-OFDM<br>16QAM        | 1       | 1         | 22.72                 | 22.79                 | 22.84                 | 0-1                                | 1           |
| CP-OFDM<br>QPSK            | 1       | 1         | 22.16                 | 22.10                 | 22.13                 | 0-1.5                              | 1.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 93 of 224                  |

## 9.5.2

## NR Band n5

Table 9-99  
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         | 24.12                                                 | 0                                  | 0           |
|                                | 1       | 53        | 24.01                                                 |                                    | 0           |
|                                | 1       | 104       | 23.94                                                 |                                    | 0           |
|                                | 50      | 0         | 23.37                                                 | 0-0.5                              | 0           |
|                                | 50      | 28        | 23.84                                                 | 0                                  | 0           |
|                                | 50      | 56        | 23.23                                                 | 0-0.5                              | 0           |
|                                | 100     | 0         | 23.26                                                 |                                    | 0           |
| DFT-s-OFDM<br>QPSK             | 1       | 1         | <b>24.11</b>                                          | 0                                  | 0           |
|                                | 1       | 53        | 24.00                                                 |                                    | 0           |
|                                | 1       | 104       | 23.65                                                 |                                    | 0           |
|                                | 50      | 0         | 22.99                                                 | 0-1                                | 1           |
|                                | 50      | 28        | <b>23.83</b>                                          | 0                                  | 0           |
|                                | 50      | 56        | 22.77                                                 | 0-1                                | 1           |
|                                | 100     | 0         | 22.89                                                 |                                    | 1           |
| DFT-s-OFDM<br>16QAM            | 1       | 1         | 22.94                                                 | 0-1                                | 1           |
| CP-OFDM<br>QPSK                | 1       | 1         | 21.93                                                 | 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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| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 94 of 224                  |

**Table 9-100**  
**NR Band n5 Measured  $P_{max}$  for all DSI - 15 MHz Bandwidth**  
**NR Band n5**  
**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         | 24.26                                                 | 0                                  | 0           |
|                                | 1       | 40        | 24.05                                                 |                                    | 0           |
|                                | 1       | 77        | 23.94                                                 |                                    | 0           |
|                                | 36      | 0         | 23.57                                                 | 0-0.5                              | 0           |
|                                | 36      | 22        | 24.01                                                 | 0                                  | 0           |
|                                | 36      | 43        | 23.43                                                 | 0-0.5                              | 0           |
|                                | 75      | 0         | 23.50                                                 |                                    | 0           |
| DFT-s-OFDM<br>QPSK             | 1       | 1         | 24.30                                                 | 0                                  | 0           |
|                                | 1       | 40        | 24.09                                                 |                                    | 0           |
|                                | 1       | 77        | 23.97                                                 |                                    | 0           |
|                                | 36      | 0         | 23.08                                                 | 0-1                                | 1           |
|                                | 36      | 22        | 23.97                                                 | 0                                  | 0           |
|                                | 36      | 43        | 22.92                                                 | 0-1                                | 1           |
|                                | 75      | 0         | 22.98                                                 |                                    | 1           |
| DFT-s-OFDM<br>16QAM            | 1       | 1         | 23.43                                                 | 0-1                                | 1           |
| CP-OFDM<br>QPSK                | 1       | 1         | 22.47                                                 | 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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| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 95 of 224                                                                        |                                 |

**Table 9-101**  
**NR Band n5 Measured  $P_{max}$  for all DSI - 10 MHz Bandwidth**  
**NR Band n5**  
**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         | 24.02                                                 | 0                                  | 0           |
|                                | 1       | 26        | 24.05                                                 |                                    | 0           |
|                                | 1       | 50        | 23.95                                                 |                                    | 0           |
|                                | 25      | 0         | 23.39                                                 | 0-0.5                              | 0           |
|                                | 25      | 14        | 24.02                                                 | 0                                  | 0           |
|                                | 25      | 27        | 23.30                                                 | 0-0.5                              | 0           |
|                                | 50      | 0         | 23.38                                                 |                                    | 0           |
| DFT-s-OFDM<br>QPSK             | 1       | 1         | 24.09                                                 | 0                                  | 0           |
|                                | 1       | 26        | 24.03                                                 |                                    | 0           |
|                                | 1       | 50        | 23.96                                                 |                                    | 0           |
|                                | 25      | 0         | 22.99                                                 | 0-1                                | 1           |
|                                | 25      | 14        | 23.97                                                 | 0                                  | 0           |
|                                | 25      | 27        | 22.94                                                 | 0-1                                | 1           |
|                                | 50      | 0         | 23.03                                                 |                                    | 1           |
| DFT-s-OFDM<br>16QAM            | 1       | 1         | 23.29                                                 | 0-1                                | 1           |
| CP-OFDM<br>QPSK                | 1       | 1         | 22.43                                                 | 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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| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 96 of 224                                                                                  |                                 |

**Table 9-102**  
**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         | 24.25                 | 24.02                 | 23.95                 | 0                                  | 0           |
|                               | 1       | 13        | 24.16                 | 24.09                 | 23.85                 |                                    | 0           |
|                               | 1       | 23        | 24.13                 | 23.98                 | 23.73                 |                                    | 0           |
|                               | 12      | 0         | 23.62                 | 23.50                 | 23.31                 | 0-0.5                              | 0           |
|                               | 12      | 7         | 24.13                 | 24.03                 | 23.82                 | 0                                  | 0           |
|                               | 12      | 13        | 23.53                 | 23.40                 | 23.29                 | 0-0.5                              | 0           |
|                               | 25      | 0         | 23.59                 | 23.40                 | 23.23                 |                                    | 0           |
| DFT-s-OFDM<br>QPSK            | 1       | 1         | 24.26                 | 24.12                 | 23.98                 | 0                                  | 0           |
|                               | 1       | 13        | 24.22                 | 24.15                 | 23.86                 |                                    | 0           |
|                               | 1       | 23        | 24.09                 | 24.03                 | 23.72                 |                                    | 0           |
|                               | 12      | 0         | 23.25                 | 23.09                 | 22.90                 | 0-1                                | 1           |
|                               | 12      | 7         | 24.05                 | 24.04                 | 23.79                 | 0                                  | 0           |
|                               | 12      | 13        | 23.08                 | 22.96                 | 22.67                 | 0-1                                | 1           |
|                               | 25      | 0         | 23.08                 | 22.97                 | 22.78                 |                                    | 1           |
| DFT-s-OFDM<br>16QAM           | 1       | 1         | 23.48                 | 23.32                 | 23.20                 | 0-1                                | 1           |
| CP-OFDM<br>QPSK               | 1       | 1         | 22.64                 | 22.39                 | 22.31                 | 0-1.5                              | 1.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
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| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 97 of 224                  |

### 9.5.3

### NR Band n66 (AWS)

Table 9-103  
NR Band n66 (AWS) Measured  $P_{max}$  - 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         | 24.75                 | 24.61                | 24.53                | 0                                  | 0.0         |
|                                 | 1       | 53        | 24.72                 | 24.52                | 24.62                |                                    | 0.0         |
|                                 | 1       | 104       | 24.67                 | 24.60                | 24.55                |                                    | 0.0         |
|                                 | 50      | 0         | 24.15                 | 23.97                | 23.97                | 0-0.5                              | 0.0         |
|                                 | 50      | 28        | 24.60                 | 24.44                | 24.62                | 0                                  | 0.0         |
|                                 | 50      | 56        | 24.11                 | 23.94                | 24.13                | 0-0.5                              | 0.0         |
|                                 | 100     | 0         | 24.08                 | 23.91                | 24.01                |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 24.67                 | 24.46                | 24.51                | 0                                  | 0.0         |
|                                 | 1       | 53        | <b>24.72</b>          | 24.47                | 24.67                |                                    | 0.0         |
|                                 | 1       | 104       | 24.58                 | 24.42                | 24.56                |                                    | 0.0         |
|                                 | 50      | 0         | 23.73                 | 23.53                | 23.58                | 0-1                                | 1.0         |
|                                 | 50      | 28        | <b>24.61</b>          | 24.45                | 24.58                | 0                                  | 0.0         |
|                                 | 50      | 56        | 23.74                 | 23.58                | 23.69                | 0-1                                | 1.0         |
|                                 | 100     | 0         | 23.69                 | 23.51                | 23.68                |                                    | 1.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.82                 | 23.61                | 23.65                | 0-1                                | 1.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.19                 | 23.06                | 23.15                | 0-1.5                              | 1.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
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| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 98 of 224                  |

**Table 9-104**  
**NR Band n66 (AWS) Measured  $P_{max}$  - 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         | 24.61                  | 24.58                | 24.55                  | 0                                  | 0.0         |
|                                 | 1       | 40        | 24.62                  | 24.52                | 24.53                  |                                    | 0.0         |
|                                 | 1       | 77        | 24.63                  | 24.60                | 24.62                  |                                    | 0.0         |
|                                 | 36      | 0         | 24.13                  | 24.02                | 23.98                  | 0-0.5                              | 0.0         |
|                                 | 36      | 22        | 24.61                  | 24.55                | 24.47                  | 0                                  | 0.0         |
|                                 | 36      | 43        | 24.10                  | 24.04                | 24.04                  | 0-0.5                              | 0.0         |
|                                 | 75      | 0         | 24.15                  | 24.09                | 24.01                  |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 24.55                  | 24.60                | 24.56                  | 0                                  | 0.0         |
|                                 | 1       | 40        | 24.63                  | 24.51                | 24.49                  |                                    | 0.0         |
|                                 | 1       | 77        | 24.69                  | 24.56                | 24.63                  |                                    | 0.0         |
|                                 | 36      | 0         | 23.73                  | 23.64                | 23.57                  | 0-1                                | 1.0         |
|                                 | 36      | 22        | 24.59                  | 24.52                | 24.45                  | 0                                  | 0.0         |
|                                 | 36      | 43        | 23.74                  | 23.66                | 23.59                  | 0-1                                | 1.0         |
|                                 | 75      | 0         | 23.72                  | 23.68                | 23.62                  |                                    | 1.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.56                  | 23.63                | 23.47                  | 0-1                                | 1.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.14                  | 23.12                | 22.98                  | 0-1.5                              | 1.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
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| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 99 of 224                  |

**Table 9-105**  
**NR Band n66 (AWS) Measured  $P_{max}$  - 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         | 24.70                 | 24.61                | 24.66                | 0                                  | 0.0         |
|                                 | 1       | 26        | 24.81                 | 24.87                | 24.87                |                                    | 0.0         |
|                                 | 1       | 50        | 24.56                 | 24.58                | 24.56                |                                    | 0.0         |
|                                 | 25      | 0         | 24.02                 | 24.07                | 24.03                | 0-0.5                              | 0.0         |
|                                 | 25      | 14        | 24.55                 | 24.59                | 24.57                | 0                                  | 0.0         |
|                                 | 25      | 27        | 24.06                 | 24.08                | 24.06                | 0-0.5                              | 0.0         |
|                                 | 50      | 0         | 24.03                 | 24.05                | 24.10                |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 24.60                 | 24.61                | 24.54                | 0                                  | 0.0         |
|                                 | 1       | 26        | 24.68                 | 24.65                | 24.68                |                                    | 0.0         |
|                                 | 1       | 50        | 24.54                 | 24.60                | 24.54                |                                    | 0.0         |
|                                 | 25      | 0         | 23.66                 | 23.69                | 23.60                | 0-1                                | 1.0         |
|                                 | 25      | 14        | 24.57                 | 24.55                | 24.59                | 0                                  | 0.0         |
|                                 | 25      | 27        | 23.63                 | 23.64                | 23.68                | 0-1                                | 1.0         |
|                                 | 50      | 0         | 23.65                 | 23.70                | 23.67                |                                    | 1.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.56                 | 23.59                | 23.55                | 0-1                                | 1.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.23                 | 23.24                | 23.30                | 0-1.5                              | 1.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 100 of 224                 |

**Table 9-106**  
**NR Band n66 (AWS) Measured  $P_{max}$  - 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         | 24.47                  | 24.52                | 24.50                  | 0                                  | 0.0         |
|                                | 1       | 13        | 24.59                  | 24.56                | 24.55                  |                                    | 0.0         |
|                                | 1       | 23        | 24.60                  | 24.53                | 24.60                  |                                    | 0.0         |
|                                | 12      | 0         | 24.02                  | 23.97                | 24.01                  | 0-0.5                              | 0.0         |
|                                | 12      | 7         | 24.55                  | 24.54                | 24.49                  | 0                                  | 0.0         |
|                                | 12      | 13        | 24.00                  | 24.00                | 24.00                  | 0-0.5                              | 0.0         |
|                                | 25      | 0         | 23.99                  | 24.06                | 24.02                  |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK             | 1       | 1         | 24.52                  | 24.46                | 24.51                  | 0                                  | 0.0         |
|                                | 1       | 13        | 24.49                  | 24.50                | 24.53                  |                                    | 0.0         |
|                                | 1       | 23        | 24.55                  | 24.51                | 24.52                  |                                    | 0.0         |
|                                | 12      | 0         | 23.63                  | 23.62                | 23.61                  | 0-1                                | 1.0         |
|                                | 12      | 7         | 24.57                  | 24.55                | 24.55                  | 0                                  | 0.0         |
|                                | 12      | 13        | 23.64                  | 23.61                | 23.63                  | 0-1                                | 1.0         |
|                                | 25      | 0         | 23.59                  | 23.65                | 23.63                  |                                    | 1.0         |
| DFT-s-OFDM<br>16QAM            | 1       | 1         | 23.51                  | 23.59                | 23.53                  | 0-1                                | 1.0         |
| CP-OFDM<br>QPSK                | 1       | 1         | 23.20                  | 23.15                | 23.42                  | 0-1.5                              | 1.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 101 of 224                 |

**Table 9-107**  
**NR Band n66 (AWS) Measured  $P_{limit}$  for DSI = 6 (Dual Display Cover 0° or 360°) or DSI = 7 (Dual Display Cover 180°)- 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         | 23.28                 | 23.49                | 23.57                | 0                                  | 0.0         |
|                                 | 1       | 53        | 23.19                 | 23.35                | 23.45                |                                    | 0.0         |
|                                 | 1       | 104       | 23.71                 | 23.41                | 23.63                |                                    | 0.0         |
|                                 | 50      | 0         | 23.69                 | 23.32                | 23.58                | 0-0.5                              | 0.0         |
|                                 | 50      | 28        | 23.82                 | 23.40                | 23.73                | 0                                  | 0.0         |
|                                 | 50      | 56        | 23.60                 | 23.28                | 23.53                | 0-0.5                              | 0.0         |
|                                 | 100     | 0         | 23.63                 | 23.22                | 23.55                |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 23.66                 | 23.40                | 23.72                | 0                                  | 0.0         |
|                                 | 1       | 53        | 23.66                 | 23.20                | 23.59                |                                    | 0.0         |
|                                 | 1       | 104       | <b>23.90</b>          | 23.60                | 23.82                |                                    | 0.0         |
|                                 | 50      | 0         | 23.60                 | 23.23                | 23.52                | 0-1                                | 0.0         |
|                                 | 50      | 28        | <b>23.68</b>          | 23.28                | 23.59                | 0                                  | 0.0         |
|                                 | 50      | 56        | 23.61                 | 23.19                | 23.53                | 0-1                                | 0.0         |
|                                 | 100     | 0         | 23.59                 | 23.16                | 23.49                |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.50                 | 23.17                | 23.54                | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.02                 | 22.62                | 22.89                | 0-1.5                              | 0.5         |

|                                         |                                                                                                                                                 |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset |                                                                                       | Page 102 of 224                 |

**Table 9-108**  
**NR Band n66 (AWS) Measured  $P_{limit}$  for DSI = 6 (Dual Display Cover 0° or 360°) or DSI = 7 (Dual Display Cover 180°) - 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         | 23.66                  | 23.69                | 23.61                  | 0                                  | 0.0         |
|                                 | 1       | 40        | 23.67                  | 23.58                | 23.50                  |                                    | 0.0         |
|                                 | 1       | 77        | 23.80                  | 23.69                | 23.70                  |                                    | 0.0         |
|                                 | 36      | 0         | 23.56                  | 23.59                | 23.51                  | 0-0.5                              | 0.0         |
|                                 | 36      | 22        | 23.65                  | 23.60                | 23.54                  | 0                                  | 0.0         |
|                                 | 36      | 43        | 23.70                  | 23.61                | 23.51                  | 0-0.5                              | 0.0         |
|                                 | 75      | 0         | 23.62                  | 23.58                | 23.55                  |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 23.73                  | 23.72                | 23.71                  | 0                                  | 0.0         |
|                                 | 1       | 40        | 23.61                  | 23.61                | 23.57                  |                                    | 0.0         |
|                                 | 1       | 77        | 23.82                  | 23.80                | 23.70                  |                                    | 0.0         |
|                                 | 36      | 0         | 23.55                  | 23.62                | 23.50                  | 0-1                                | 0.0         |
|                                 | 36      | 22        | 23.50                  | 23.63                | 23.51                  | 0                                  | 0.0         |
|                                 | 36      | 43        | 23.60                  | 23.60                | 23.48                  | 0-1                                | 0.0         |
|                                 | 75      | 0         | 23.54                  | 23.59                | 23.50                  |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.51                  | 23.54                | 23.49                  | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 22.97                  | 22.94                | 22.88                  | 0-1.5                              | 0.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 103 of 224                 |

**Table 9-109**  
**NR Band n66 (AWS) Measured  $P_{limit}$  for DSI = 6 (Dual Display Cover 0° or 360°) or DSI = 7 (Dual Display Cover 180°) - 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         | 23.62                 | 23.66                | 23.68                | 0                                  | 0.0         |
|                                 | 1       | 26        | 23.63                 | 23.65                | 23.65                |                                    | 0.0         |
|                                 | 1       | 50        | 23.76                 | 23.70                | 23.64                |                                    | 0.0         |
|                                 | 25      | 0         | 23.62                 | 23.61                | 23.52                | 0-0.5                              | 0.0         |
|                                 | 25      | 14        | 23.75                 | 23.83                | 23.74                | 0                                  | 0.0         |
|                                 | 25      | 27        | 23.60                 | 23.60                | 23.61                | 0-0.5                              | 0.0         |
|                                 | 50      | 0         | 23.65                 | 23.63                | 23.53                |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 23.60                 | 23.63                | 23.64                | 0                                  | 0.0         |
|                                 | 1       | 26        | 23.67                 | 23.67                | 23.70                |                                    | 0.0         |
|                                 | 1       | 50        | 23.68                 | 23.70                | 23.69                |                                    | 0.0         |
|                                 | 25      | 0         | 23.55                 | 23.61                | 23.51                | 0-1                                | 0.0         |
|                                 | 25      | 14        | 23.68                 | 23.70                | 23.65                | 0                                  | 0.0         |
|                                 | 25      | 27        | 23.59                 | 23.58                | 23.52                | 0-1                                | 0.0         |
|                                 | 50      | 0         | 23.60                 | 23.60                | 23.53                |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.44                 | 23.46                | 23.44                | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 22.80                 | 22.90                | 22.86                | 0-1.5                              | 0.5         |

|                                         |                                                                                                                                                 |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset |                                                                                       | Page 104 of 224                 |

**Table 9-110**  
**NR Band n66 (AWS) Measured  $P_{limit}$  for DSI = 6 (Dual Display Cover 0° or 360°) or DSI = 7 (Dual Display Cover 180°)- 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         | 23.60                  | 23.61                | 23.60                  | 0                                  | 0.0         |
|                                | 1       | 13        | 23.70                  | 23.70                | 23.69                  |                                    | 0.0         |
|                                | 1       | 23        | 23.64                  | 23.72                | 23.67                  |                                    | 0.0         |
|                                | 12      | 0         | 23.59                  | 23.60                | 23.58                  | 0-0.5                              | 0.0         |
|                                | 12      | 7         | 23.77                  | 23.79                | 23.80                  | 0                                  | 0.0         |
|                                | 12      | 13        | 23.62                  | 23.62                | 23.64                  | 0-0.5                              | 0.0         |
|                                | 25      | 0         | 23.55                  | 23.60                | 23.61                  |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK             | 1       | 1         | 23.57                  | 23.69                | 23.66                  | 0                                  | 0.0         |
|                                | 1       | 13        | 23.62                  | 23.73                | 23.70                  |                                    | 0.0         |
|                                | 1       | 23        | 23.64                  | 23.59                | 23.61                  |                                    | 0.0         |
|                                | 12      | 0         | 23.50                  | 23.53                | 23.58                  | 0-1                                | 0.0         |
|                                | 12      | 7         | 23.65                  | 23.61                | 23.62                  | 0                                  | 0.0         |
|                                | 12      | 13        | 23.54                  | 23.53                | 23.51                  | 0-1                                | 0.0         |
|                                | 25      | 0         | 23.52                  | 23.53                | 23.46                  |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM            | 1       | 1         | 23.33                  | 23.44                | 23.52                  | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                | 1       | 1         | 22.82                  | 22.87                | 22.96                  | 0-1.5                              | 0.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 105 of 224                                                                       |                                 |

Table 9-111

NR Band n66 (AWS) Measured  $P_{limit}$  for DSI = 1 (Head, Body worn, and Phablet Max), DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 23.53                 | 23.32                | 23.29                | 0                                  | 0.0         |
|                                 | 1       | 53        | 23.44                 | 23.26                | 23.27                |                                    | 0.0         |
|                                 | 1       | 104       | 23.43                 | 23.23                | 23.31                |                                    | 0.0         |
|                                 | 50      | 0         | 23.36                 | 23.24                | 23.26                | 0-0.5                              | 0.0         |
|                                 | 50      | 28        | 23.31                 | 23.17                | 23.25                | 0                                  | 0.0         |
|                                 | 50      | 56        | 23.29                 | 23.22                | 23.27                | 0-0.5                              | 0.0         |
|                                 | 100     | 0         | 23.30                 | 23.20                | 23.27                |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | <b>23.46</b>          | 23.24                | 23.21                | 0                                  | 0.0         |
|                                 | 1       | 53        | 23.40                 | 23.29                | 23.25                |                                    | 0.0         |
|                                 | 1       | 104       | 23.32                 | 23.28                | 23.20                |                                    | 0.0         |
|                                 | 50      | 0         | <b>23.37</b>          | 23.27                | 23.25                | 0-1                                | 0.0         |
|                                 | 50      | 28        | 23.32                 | 23.34                | 23.29                | 0                                  | 0.0         |
|                                 | 50      | 56        | 23.22                 | 23.28                | 23.24                | 0-1                                | 0.0         |
|                                 | 100     | 0         | 23.36                 | 23.21                | 23.24                |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.41                 | 23.31                | 23.24                | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.17                 | 23.05                | 23.12                | 0-1.5                              | 0.0         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 106 of 224                 |

Table 9-112

NR Band n66 (AWS) Measured  $P_{limit}$  for DSI = 1 (Head, Body worn, and Phablet Max), DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 23.21                  | 23.28                | 23.10                  | 0                                  | 0.0         |
|                                 | 1       | 40        | 23.05                  | 23.18                | 23.12                  |                                    | 0.0         |
|                                 | 1       | 77        | 23.13                  | 23.34                | 23.25                  |                                    | 0.0         |
|                                 | 36      | 0         | 23.22                  | 23.22                | 23.15                  | 0-0.5                              | 0.0         |
|                                 | 36      | 22        | 23.16                  | 23.19                | 23.12                  | 0                                  | 0.0         |
|                                 | 36      | 43        | 23.21                  | 23.18                | 23.15                  | 0-0.5                              | 0.0         |
|                                 | 75      | 0         | 23.24                  | 23.20                | 23.13                  |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 23.21                  | 23.24                | 23.21                  | 0                                  | 0.0         |
|                                 | 1       | 40        | 23.32                  | 23.21                | 23.11                  |                                    | 0.0         |
|                                 | 1       | 77        | 23.34                  | 23.16                | 23.35                  |                                    | 0.0         |
|                                 | 36      | 0         | 23.19                  | 23.23                | 23.14                  | 0-1                                | 0.0         |
|                                 | 36      | 22        | 23.22                  | 23.17                | 23.08                  | 0                                  | 0.0         |
|                                 | 36      | 43        | 23.17                  | 23.16                | 23.12                  | 0-1                                | 0.0         |
|                                 | 75      | 0         | 23.20                  | 23.19                | 23.10                  |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.21                  | 23.14                | 23.07                  | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.17                  | 23.16                | 22.97                  | 0-1.5                              | 0.0         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
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| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 107 of 224                 |

Table 9-113

NR Band n66 (AWS) Measured  $P_{limit}$  for DSI = 1 (Head, Body worn, and Phablet Max), DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 23.20                 | 23.09                | 23.12                | 0                                  | 0.0         |
|                                 | 1       | 26        | 23.37                 | 23.35                | 23.40                |                                    | 0.0         |
|                                 | 1       | 50        | 23.22                 | 23.15                | 23.16                |                                    | 0.0         |
|                                 | 25      | 0         | 23.10                 | 23.13                | 23.14                | 0-0.5                              | 0.0         |
|                                 | 25      | 14        | 23.14                 | 23.17                | 23.19                | 0                                  | 0.0         |
|                                 | 25      | 27        | 23.16                 | 23.14                | 23.19                | 0-0.5                              | 0.0         |
|                                 | 50      | 0         | 23.11                 | 23.11                | 23.17                |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 23.14                 | 23.18                | 23.16                | 0                                  | 0.0         |
|                                 | 1       | 26        | 23.20                 | 23.15                | 23.21                |                                    | 0.0         |
|                                 | 1       | 50        | 23.17                 | 23.09                | 23.04                |                                    | 0.0         |
|                                 | 25      | 0         | 23.11                 | 23.15                | 23.18                | 0-1                                | 0.0         |
|                                 | 25      | 14        | 23.14                 | 23.16                | 23.22                | 0                                  | 0.0         |
|                                 | 25      | 27        | 23.10                 | 23.08                | 23.11                | 0-1                                | 0.0         |
|                                 | 50      | 0         | 23.18                 | 23.13                | 23.17                |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.15                 | 23.17                | 23.21                | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.08                 | 23.03                | 23.23                | 0-1.5                              | 0.0         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
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| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 108 of 224                 |

Table 9-114

NR Band n66 (AWS) Measured  $P_{limit}$  for DSI = 1 (Head, Body worn, and Phablet Max), DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 23.13                  | 23.19                | 23.13                  | 0                                  | 0.0         |
|                                | 1       | 13        | 23.15                  | 23.15                | 23.17                  |                                    | 0.0         |
|                                | 1       | 23        | 23.11                  | 23.15                | 23.09                  |                                    | 0.0         |
|                                | 12      | 0         | 23.09                  | 23.08                | 23.12                  | 0-0.5                              | 0.0         |
|                                | 12      | 7         | 23.14                  | 23.17                | 23.16                  | 0                                  | 0.0         |
|                                | 12      | 13        | 23.06                  | 23.13                | 23.04                  | 0-0.5                              | 0.0         |
|                                | 25      | 0         | 23.14                  | 23.12                | 23.08                  |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK             | 1       | 1         | 23.13                  | 23.07                | 23.10                  | 0                                  | 0.0         |
|                                | 1       | 13        | 23.10                  | 23.06                | 23.11                  |                                    | 0.0         |
|                                | 1       | 23        | 23.03                  | 23.11                | 23.06                  |                                    | 0.0         |
|                                | 12      | 0         | 23.12                  | 23.12                | 23.08                  | 0-1                                | 0.0         |
|                                | 12      | 7         | 23.21                  | 23.10                | 23.15                  | 0                                  | 0.0         |
|                                | 12      | 13        | 23.13                  | 23.08                | 23.15                  | 0-1                                | 0.0         |
|                                | 25      | 0         | 23.11                  | 23.13                | 23.12                  |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM            | 1       | 1         | 23.04                  | 23.14                | 23.15                  | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                | 1       | 1         | 23.10                  | 23.22                | 23.29                  | 0-1.5                              | 0.0         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
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| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 109 of 224                 |

## 9.5.4

## NR Band n25 (PCS)

Table 9-115  
NR Band n25 (PCS) Measured  $P_{max}$  - 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         | 24.79                 | 24.87                  | 24.62                | 0                                  | 0.0         |
|                                 | 1       | 53        | 24.82                 | 24.80                  | 24.73                |                                    | 0.0         |
|                                 | 1       | 104       | 24.75                 | 24.76                  | 24.83                |                                    | 0.0         |
|                                 | 50      | 0         | 24.30                 | 24.23                  | 24.08                | 0-0.5                              | 0.0         |
|                                 | 50      | 28        | 24.83                 | 24.71                  | 24.69                | 0                                  | 0.0         |
|                                 | 50      | 56        | 24.31                 | 24.19                  | 24.25                | 0-0.5                              | 0.0         |
|                                 | 100     | 0         | 24.33                 | 24.16                  | 24.11                |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | <b>24.75</b>          | 24.74                  | 24.69                | 0                                  | 0.0         |
|                                 | 1       | 53        | 24.62                 | 24.61                  | 24.54                |                                    | 0.0         |
|                                 | 1       | 104       | 24.73                 | 24.52                  | 24.74                |                                    | 0.0         |
|                                 | 50      | 0         | 23.86                 | 23.82                  | 23.64                | 0-1                                | 1.0         |
|                                 | 50      | 28        | <b>24.81</b>          | 24.64                  | 24.62                | 0                                  | 0.0         |
|                                 | 50      | 56        | 23.94                 | 23.76                  | 23.84                | 0-1                                | 1.0         |
|                                 | 100     | 0         | 23.96                 | 23.79                  | 23.73                |                                    | 1.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.81                 | 23.88                  | 23.73                | 0-1                                | 1.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.24                 | 23.23                  | 23.22                | 0-1.5                              | 1.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 110 of 224                 |

**Table 9-116**  
**NR Band n25 (PCS) Measured  $P_{max}$  - 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         | 24.97                  | 25.02                  | 24.65                  | 0                                  | 0.0         |
|                                 | 1       | 40        | 25.02                  | 24.95                  | 24.76                  |                                    | 0.0         |
|                                 | 1       | 77        | 25.08                  | 24.84                  | 24.85                  |                                    | 0.0         |
|                                 | 36      | 0         | 24.45                  | 24.45                  | 24.21                  | 0-0.5                              | 0.0         |
|                                 | 36      | 22        | 24.88                  | 24.81                  | 24.74                  | 0                                  | 0.0         |
|                                 | 36      | 43        | 24.54                  | 24.38                  | 24.30                  | 0-0.5                              | 0.0         |
|                                 | 75      | 0         | 24.44                  | 24.43                  | 24.25                  |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 25.04                  | 24.99                  | 24.68                  | 0                                  | 0.0         |
|                                 | 1       | 40        | 25.10                  | 24.85                  | 24.87                  |                                    | 0.0         |
|                                 | 1       | 77        | 25.08                  | 24.84                  | 24.94                  |                                    | 0.0         |
|                                 | 36      | 0         | 24.05                  | 23.94                  | 23.90                  | 0-1                                | 1.0         |
|                                 | 36      | 22        | 24.88                  | 24.81                  | 24.71                  | 0                                  | 0.0         |
|                                 | 36      | 43        | 24.06                  | 23.85                  | 23.89                  | 0-1                                | 1.0         |
|                                 | 75      | 0         | 24.03                  | 23.92                  | 23.87                  |                                    | 1.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 24.39                  | 24.34                  | 23.99                  | 0-1                                | 1.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.37                  | 23.28                  | 23.14                  | 0-1.5                              | 1.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 111 of 224                 |

**Table 9-117**  
**NR Band n25 (PCS) Measured  $P_{max}$  - 10 MHz Bandwidth**  
**NR Band n25**  
**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         | 24.84                 | 24.97                  | 24.56                | 0                                  | 0.0         |
|                                 | 1       | 26        | 25.38                 | 25.05                  | 24.74                |                                    | 0.0         |
|                                 | 1       | 50        | 24.94                 | 24.86                  | 24.82                |                                    | 0.0         |
|                                 | 25      | 0         | 24.41                 | 24.33                  | 24.10                | 0-0.5                              | 0.0         |
|                                 | 25      | 14        | 24.92                 | 24.80                  | 24.69                | 0                                  | 0.0         |
|                                 | 25      | 27        | 24.43                 | 24.32                  | 24.20                | 0-0.5                              | 0.0         |
|                                 | 50      | 0         | 24.41                 | 24.27                  | 24.20                |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 24.85                 | 24.89                  | 24.48                | 0                                  | 0.0         |
|                                 | 1       | 26        | 24.95                 | 24.99                  | 24.71                |                                    | 0.0         |
|                                 | 1       | 50        | 24.86                 | 24.78                  | 24.73                |                                    | 0.0         |
|                                 | 25      | 0         | 23.98                 | 23.89                  | 23.71                | 0-1                                | 1.0         |
|                                 | 25      | 14        | 24.96                 | 24.83                  | 24.63                | 0                                  | 0.0         |
|                                 | 25      | 27        | 24.01                 | 23.87                  | 23.79                | 0-1                                | 1.0         |
|                                 | 50      | 0         | 23.95                 | 23.90                  | 23.74                |                                    | 1.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 24.02                 | 24.27                  | 23.57                | 0-1                                | 1.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.18                 | 23.17                  | 23.05                | 0-1.5                              | 1.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 112 of 224                 |

**Table 9-118**  
**NR Band n25 (PCS) Measured  $P_{max}$  - 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         | 24.91                  | 24.76                  | 24.59                  | 0                                  | 0.0         |
|                            | 1       | 13        | 24.96                  | 24.88                  | 24.71                  |                                    | 0.0         |
|                            | 1       | 23        | 24.95                  | 24.77                  | 24.73                  |                                    | 0.0         |
|                            | 12      | 0         | 24.35                  | 24.24                  | 24.07                  | 0-0.5                              | 0.0         |
|                            | 12      | 7         | 24.95                  | 24.78                  | 24.79                  | 0                                  | 0.0         |
|                            | 12      | 13        | 24.37                  | 24.34                  | 24.27                  | 0-0.5                              | 0.0         |
|                            | 25      | 0         | 24.38                  | 24.25                  | 24.14                  |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK         | 1       | 1         | 24.79                  | 24.78                  | 24.61                  | 0                                  | 0.0         |
|                            | 1       | 13        | 24.86                  | 24.71                  | 24.65                  |                                    | 0.0         |
|                            | 1       | 23        | 24.96                  | 24.74                  | 24.68                  |                                    | 0.0         |
|                            | 12      | 0         | 23.92                  | 23.81                  | 23.75                  | 0-1                                | 1.0         |
|                            | 12      | 7         | 24.94                  | 24.98                  | 24.76                  | 0                                  | 0.0         |
|                            | 12      | 13        | 24.00                  | 23.90                  | 23.77                  | 0-1                                | 1.0         |
|                            | 25      | 0         | 23.95                  | 23.92                  | 23.76                  |                                    | 1.0         |
| DFT-s-OFDM<br>16QAM        | 1       | 1         | 23.95                  | 23.85                  | 23.77                  | 0-1                                | 1.0         |
| CP-OFDM<br>QPSK            | 1       | 1         | 23.22                  | 23.14                  | 22.94                  | 0-1.5                              | 1.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 113 of 224                 |

Table 9-119

NR Band n25 (PCS) Measured  $P_{limit}$  for DSI = 1 (Head, Body worn, and Phablet Max), DSI = 6 (Dual Display Cover 0° or 360°), DSI = 7 (Dual Display Cover 180°) and/or DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 23.85                 | 23.86                  | 23.61                | 0                                  | 0.0         |
|                                 | 1       | 53        | 23.80                 | 23.77                  | 23.71                |                                    | 0.0         |
|                                 | 1       | 104       | 23.91                 | 23.74                  | 23.84                |                                    | 0.0         |
|                                 | 50      | 0         | 23.86                 | 23.78                  | 23.51                | 0-0.5                              | 0.0         |
|                                 | 50      | 28        | 23.98                 | 23.81                  | 23.61                | 0                                  | 0.0         |
|                                 | 50      | 56        | 23.91                 | 23.73                  | 23.67                | 0-0.5                              | 0.0         |
|                                 | 100     | 0         | 23.90                 | 23.76                  | 23.59                |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 23.86                 | 23.80                  | 23.53                | 0                                  | 0.0         |
|                                 | 1       | 53        | 23.73                 | 23.74                  | 23.54                |                                    | 0.0         |
|                                 | 1       | 104       | <b>23.88</b>          | 23.63                  | 23.73                |                                    | 0.0         |
|                                 | 50      | 0         | 23.86                 | 23.77                  | 23.48                | 0-1                                | 0.0         |
|                                 | 50      | 28        | <b>23.94</b>          | 23.73                  | 23.57                | 0                                  | 0.0         |
|                                 | 50      | 56        | 23.92                 | 23.72                  | 23.68                | 0-1                                | 0.0         |
|                                 | 100     | 0         | 23.93                 | 23.68                  | 23.65                |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.84                 | 23.81                  | 23.45                | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.26                 | 23.16                  | 22.98                | 0-1.5                              | 0.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 114 of 224                 |

Table 9-120

NR Band n25 (PCS) Measured  $P_{limit}$  for DSI = 1 (Head, Body worn, and Phablet Max), DSI = 6 (Dual Display Cover 0° or 360°), DSI = 7 (Dual Display Cover 180°) and/or DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 24.05                  | 24.15                  | 23.78                  | 0                                  | 0.0         |
|                                 | 1       | 40        | 24.07                  | 24.01                  | 23.88                  |                                    | 0.0         |
|                                 | 1       | 77        | 24.14                  | 23.97                  | 24.02                  |                                    | 0.0         |
|                                 | 36      | 0         | 24.01                  | 23.94                  | 23.78                  | 0-0.5                              | 0.0         |
|                                 | 36      | 22        | 23.95                  | 23.92                  | 23.81                  | 0                                  | 0.0         |
|                                 | 36      | 43        | 24.07                  | 23.90                  | 23.93                  | 0-0.5                              | 0.0         |
|                                 | 75      | 0         | 23.95                  | 23.89                  | 23.85                  |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 24.06                  | 24.05                  | 23.86                  | 0                                  | 0.0         |
|                                 | 1       | 40        | 24.03                  | 23.95                  | 23.91                  |                                    | 0.0         |
|                                 | 1       | 77        | 24.14                  | 23.95                  | 24.03                  |                                    | 0.0         |
|                                 | 36      | 0         | 24.03                  | 23.95                  | 23.79                  | 0-1                                | 0.0         |
|                                 | 36      | 22        | 24.01                  | 23.89                  | 23.75                  | 0                                  | 0.0         |
|                                 | 36      | 43        | 24.08                  | 23.87                  | 23.90                  | 0-1                                | 0.0         |
|                                 | 75      | 0         | 24.03                  | 23.92                  | 23.87                  |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 24.26                  | 24.31                  | 24.09                  | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.33                  | 23.35                  | 23.12                  | 0-1.5                              | 0.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 115 of 224                 |

Table 9-121

NR Band n25 (PCS) Measured  $P_{limit}$  for DSI = 1 (Head, Body worn, and Phablet Max), DSI = 6 (Dual Display Cover 0° or 360°), DSI = 7 (Dual Display Cover 180°) and/or DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 23.99                 | 23.97                  | 23.70                | 0                                  | 0.0         |
|                                 | 1       | 26        | 24.43                 | 24.15                  | 23.86                |                                    | 0.0         |
|                                 | 1       | 50        | 24.06                 | 23.96                  | 23.84                |                                    | 0.0         |
|                                 | 25      | 0         | 23.99                 | 23.88                  | 23.72                | 0-0.5                              | 0.0         |
|                                 | 25      | 14        | 24.04                 | 23.89                  | 23.75                | 0                                  | 0.0         |
|                                 | 25      | 27        | 24.00                 | 23.91                  | 23.83                | 0-0.5                              | 0.0         |
|                                 | 50      | 0         | 24.02                 | 23.92                  | 23.75                |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 24.02                 | 24.02                  | 23.63                | 0                                  | 0.0         |
|                                 | 1       | 26        | 24.06                 | 24.05                  | 23.72                |                                    | 0.0         |
|                                 | 1       | 50        | 23.97                 | 23.94                  | 23.85                |                                    | 0.0         |
|                                 | 25      | 0         | 23.94                 | 23.88                  | 23.69                | 0-1                                | 0.0         |
|                                 | 25      | 14        | 24.03                 | 23.92                  | 23.78                | 0                                  | 0.0         |
|                                 | 25      | 27        | 24.05                 | 23.85                  | 23.82                | 0-1                                | 0.0         |
|                                 | 50      | 0         | 23.97                 | 23.90                  | 23.76                |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.97                 | 24.35                  | 23.61                | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.34                 | 23.26                  | 22.93                | 0-1.5                              | 0.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 116 of 224                 |

Table 9-122

NR Band n25 (PCS) Measured  $P_{limit}$  for DSI = 1 (Head, Body worn, and Phablet Max), DSI = 6 (Dual Display Cover 0° or 360°), DSI = 7 (Dual Display Cover 180°) and/or DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 24.01                  | 23.94                  | 23.75                  | 0                                  | 0.0         |
|                                | 1       | 13        | 24.03                  | 23.99                  | 23.97                  |                                    | 0.0         |
|                                | 1       | 23        | 24.08                  | 24.01                  | 23.88                  |                                    | 0.0         |
|                                | 12      | 0         | 23.86                  | 23.85                  | 23.75                  | 0-0.5                              | 0.0         |
|                                | 12      | 7         | 23.97                  | 23.91                  | 23.88                  | 0                                  | 0.0         |
|                                | 12      | 13        | 24.03                  | 23.92                  | 23.82                  | 0-0.5                              | 0.0         |
|                                | 25      | 0         | 24.03                  | 23.90                  | 23.75                  |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK             | 1       | 1         | 23.89                  | 23.76                  | 23.72                  | 0                                  | 0.0         |
|                                | 1       | 13        | 24.02                  | 23.78                  | 23.82                  |                                    | 0.0         |
|                                | 1       | 23        | 23.98                  | 23.84                  | 23.89                  |                                    | 0.0         |
|                                | 12      | 0         | 23.92                  | 23.82                  | 23.72                  | 0-1                                | 0.0         |
|                                | 12      | 7         | 24.05                  | 23.93                  | 23.78                  | 0                                  | 0.0         |
|                                | 12      | 13        | 23.97                  | 23.93                  | 23.86                  | 0-1                                | 0.0         |
|                                | 25      | 0         | 23.91                  | 23.83                  | 23.72                  |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM            | 1       | 1         | 23.95                  | 23.90                  | 23.57                  | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                | 1       | 1         | 23.24                  | 23.20                  | 22.96                  | 0-1.5                              | 0.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 117 of 224                 |

## 9.5.5

## NR Band n41

Table 9-123  
NR Band n41 Measured  $P_{max}$  - 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         | 24.27                                                   | 0                                  | 0.0         |
|                                  | 1       | 137       | 24.44                                                   |                                    | 0.0         |
|                                  | 1       | 271       | 24.30                                                   |                                    | 0.0         |
|                                  | 135     | 0         | 23.99                                                   | 0-0.5                              | 0.0         |
|                                  | 135     | 69        | 24.26                                                   | 0                                  | 0.0         |
|                                  | 135     | 138       | 24.00                                                   | 0-0.5                              | 0.0         |
|                                  | 270     | 0         | 23.95                                                   |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK               | 1       | 1         | <b>24.41</b>                                            | 0                                  | 0.0         |
|                                  | 1       | 137       | 24.31                                                   |                                    | 0.0         |
|                                  | 1       | 271       | 24.40                                                   |                                    | 0.0         |
|                                  | 135     | 0         | 23.46                                                   | 0-1                                | 1.0         |
|                                  | 135     | 69        | <b>24.37</b>                                            | 0                                  | 0.0         |
|                                  | 135     | 138       | 23.47                                                   | 0-1                                | 1.0         |
|                                  | 270     | 0         | 23.50                                                   |                                    | 1.0         |
| DFT-s-OFDM<br>16QAM              | 1       | 1         | 23.53                                                   | 0-1                                | 1.0         |
| CP-OFDM<br>QPSK                  | 1       | 1         | 23.01                                                   | 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: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 118 of 224                                                                       |                                 |

**Table 9-124**  
**NR Band n41 Measured  $P_{max}$  - 90 MHz Bandwidth**  
**NR Band n41**  
**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         | 24.44                 | 24.07                   | 0                                  | 0.0         |
|                                 | 1       | 123       | 24.25                 | 24.04                   |                                    | 0.0         |
|                                 | 1       | 243       | 24.36                 | 24.04                   |                                    | 0.0         |
|                                 | 120     | 0         | 23.77                 | 23.56                   | 0-0.5                              | 0.0         |
|                                 | 120     | 63        | 24.16                 | 23.67                   | 0                                  | 0.0         |
|                                 | 120     | 125       | 23.64                 | 23.51                   | 0-0.5                              | 0.0         |
|                                 | 243     | 0         | 23.69                 | 23.52                   |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 24.57                 | 23.83                   | 0                                  | 0.0         |
|                                 | 1       | 123       | 24.32                 | 24.03                   |                                    | 0.0         |
|                                 | 1       | 243       | 24.45                 | 23.78                   |                                    | 0.0         |
|                                 | 120     | 0         | 23.20                 | 22.94                   | 0-1                                | 1.0         |
|                                 | 120     | 63        | 24.08                 | 23.78                   | 0                                  | 0.0         |
|                                 | 120     | 125       | 23.01                 | 22.92                   | 0-1                                | 1.0         |
|                                 | 243     | 0         | 23.09                 | 22.92                   |                                    | 1.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.29                 | 23.27                   | 0-1                                | 1.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.02                 | 22.99                   | 0-1.5                              | 1.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 119 of 224                 |

**Table 9-125**  
**NR Band n41 Measured  $P_{max}$  - 80 MHz Bandwidth**  
**NR Band n41**  
**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         | 24.12                   | 24.18                   | 0                                  | 0.0         |
|                                 | 1       | 109       | 24.22                   | 24.21                   |                                    | 0.0         |
|                                 | 1       | 215       | 23.87                   | 23.93                   |                                    | 0.0         |
|                                 | 108     | 0         | 23.54                   | 23.78                   | 0-0.5                              | 0.0         |
|                                 | 108     | 55        | 24.03                   | 24.03                   | 0                                  | 0.0         |
|                                 | 108     | 109       | 23.58                   | 23.75                   | 0-0.5                              | 0.0         |
|                                 | 216     | 0         | 23.70                   | 23.93                   |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 24.25                   | 24.41                   | 0                                  | 0.0         |
|                                 | 1       | 109       | 24.14                   | 24.39                   |                                    | 0.0         |
|                                 | 1       | 215       | 24.23                   | 24.37                   |                                    | 0.0         |
|                                 | 108     | 0         | 22.94                   | 23.19                   | 0-1                                | 1.0         |
|                                 | 108     | 55        | 23.97                   | 24.02                   | 0                                  | 0.0         |
|                                 | 108     | 109       | 22.99                   | 23.21                   | 0-1                                | 1.0         |
|                                 | 216     | 0         | 22.92                   | 23.17                   |                                    | 1.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.44                   | 23.45                   | 0-1                                | 1.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 22.72                   | 23.11                   | 0-1.5                              | 1.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 120 of 224                 |

**Table 9-126**  
**NR Band n41 Measured  $P_{max}$  - 60 MHz Bandwidth**  
**NR Band n41**  
**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         | 24.28                 | 24.47                   | 24.29                   | 0                                  | 0.0         |
|                            | 1       | 81        | 24.15                 | 24.33                   | 24.18                   |                                    | 0.0         |
|                            | 1       | 160       | 23.96                 | 24.06                   | 23.87                   |                                    | 0.0         |
|                            | 81      | 0         | 23.37                 | 23.81                   | 23.60                   | 0-0.5                              | 0.0         |
|                            | 81      | 41        | 23.75                 | 23.98                   | 23.83                   | 0                                  | 0.0         |
|                            | 81      | 81        | 23.45                 | 23.77                   | 23.58                   | 0-0.5                              | 0.0         |
|                            | 162     | 0         | 23.38                 | 23.79                   | 23.62                   |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK         | 1       | 1         | 24.12                 | 24.34                   | 24.23                   | 0                                  | 0.0         |
|                            | 1       | 81        | 24.10                 | 24.46                   | 24.36                   |                                    | 0.0         |
|                            | 1       | 160       | 24.20                 | 24.37                   | 24.27                   |                                    | 0.0         |
|                            | 81      | 0         | 22.69                 | 23.25                   | 23.10                   | 0-1                                | 1.0         |
|                            | 81      | 41        | 23.77                 | 24.04                   | 23.92                   | 0                                  | 0.0         |
|                            | 81      | 81        | 22.76                 | 23.17                   | 23.08                   | 0-1                                | 1.0         |
|                            | 162     | 0         | 22.69                 | 23.16                   | 23.06                   |                                    | 1.0         |
| DFT-s-OFDM<br>16QAM        | 1       | 1         | 22.94                 | 23.43                   | 23.33                   | 0-1                                | 1.0         |
| CP-OFDM<br>QPSK            | 1       | 1         | 22.24                 | 22.69                   | 22.65                   | 0-1.5                              | 1.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 121 of 224                 |

**Table 9-127**  
**NR Band n41 Measured  $P_{max}$  - 50 MHz Bandwidth**  
**NR Band n41**  
**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         | 24.49                   | 24.52                   | 23.88                   | 0                                  | 0.0         |
|                            | 1       | 67        | 24.45                   | 24.37                   | 24.03                   |                                    | 0.0         |
|                            | 1       | 131       | 24.63                   | 24.58                   | 24.17                   |                                    | 0.0         |
|                            | 64      | 0         | 23.65                   | 23.82                   | 23.74                   | 0-0.5                              | 0.0         |
|                            | 64      | 35        | 23.98                   | 24.05                   | 24.01                   | 0                                  | 0.0         |
|                            | 64      | 69        | 23.78                   | 23.91                   | 23.82                   | 0-0.5                              | 0.0         |
|                            | 128     | 0         | 23.78                   | 23.82                   | 23.66                   |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK         | 1       | 1         | 24.15                   | 24.02                   | 24.46                   | 0                                  | 0.0         |
|                            | 1       | 67        | 24.32                   | 24.44                   | 24.42                   |                                    | 0.0         |
|                            | 1       | 131       | 24.41                   | 24.52                   | 24.42                   |                                    | 0.0         |
|                            | 64      | 0         | 22.84                   | 23.22                   | 23.13                   | 0-1                                | 1.0         |
|                            | 64      | 35        | 23.95                   | 24.04                   | 23.90                   | 0                                  | 0.0         |
|                            | 64      | 69        | 22.97                   | 23.36                   | 23.15                   | 0-1                                | 1.0         |
|                            | 128     | 0         | 22.80                   | 23.15                   | 23.09                   |                                    | 1.0         |
| DFT-s-OFDM<br>16QAM        | 1       | 1         | 23.03                   | 23.39                   | 23.55                   | 0-1                                | 1.0         |
| CP-OFDM<br>QPSK            | 1       | 1         | 22.87                   | 23.07                   | 23.06                   | 0-1.5                              | 1.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 122 of 224                 |

**Table 9-128**  
**NR Band n41 Measured  $P_{max}$  - 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         | 24.07                   | 24.01                   | 24.15                   | 24.11                | 0                                  | 0.0                                |
|                                 | 1       | 53        | 24.85                   | 24.72                   | 24.80                   | 24.72                |                                    | 0.0                                |
|                                 | 1       | 104       | 24.99                   | 24.88                   | 24.99                   | 24.91                |                                    | 0.0                                |
|                                 | 50      | 0         | 24.20                   | 24.19                   | 24.41                   | 24.35                | 0-0.5                              | 0.0                                |
|                                 | 50      | 28        | 24.48                   | 24.42                   | 24.49                   | 24.44                | 0                                  | 0.0                                |
|                                 | 50      | 56        | 24.04                   | 24.03                   | 24.30                   | 24.25                | 0-0.5                              | 0.0                                |
|                                 | 100     | 0         | 24.05                   | 24.02                   | 24.14                   | 24.17                |                                    | 0.0                                |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 24.69                   | 24.64                   | 24.82                   | 24.70                | 0                                  | 0.0                                |
|                                 | 1       | 53        | 24.83                   | 24.83                   | 24.91                   | 24.90                |                                    | 0.0                                |
|                                 | 1       | 104       | 24.92                   | 24.90                   | 24.96                   | 24.88                |                                    | 0.0                                |
|                                 | 50      | 0         | 23.36                   | 23.42                   | 23.65                   | 23.60                | 0-1                                | 1.0                                |
|                                 | 50      | 28        | 24.51                   | 24.50                   | 24.54                   | 24.55                | 0                                  | 0.0                                |
|                                 | 50      | 56        | 23.39                   | 23.36                   | 23.67                   | 23.59                | 0-1                                | 1.0                                |
|                                 | 100     | 0         | 23.39                   | 23.36                   | 23.62                   | 23.63                |                                    | 1.0                                |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.87                   | 23.97                   | 23.56                   | 23.59                | 0-1                                | 1.0                                |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.02                   | 23.01                   | 23.20                   | 23.35                | 0-1.5                              | 1.5                                |

|                                         |                                                                                                                                  |                               |                                                                                                 |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset | Page 123 of 224                                                                                 |                                 |

**Table 9-129**  
**NR Band n41 Measured  $P_{max}$  - 20 MHz Bandwidth**

| NR Band n41                |         |           |                         |                         |                         |                         |                         |                                    |             |
|----------------------------|---------|-----------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------------------------------------|-------------|
| 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         | 24.64                   | 24.73                   | 24.83                   | 24.79                   | 24.73                   | 0                                  | 0.0         |
|                            | 1       | 26        | 24.20                   | 24.34                   | 24.36                   | 24.28                   | 24.31                   |                                    | 0.0         |
|                            | 1       | 49        | 24.58                   | 24.75                   | 24.72                   | 24.75                   | 24.71                   |                                    | 0.0         |
|                            | 25      | 0         | 23.67                   | 23.92                   | 24.11                   | 24.06                   | 23.93                   | 0-0.5                              | 0.0         |
|                            | 25      | 13        | 24.10                   | 24.22                   | 24.21                   | 24.13                   | 24.07                   | 0                                  | 0.0         |
|                            | 25      | 26        | 23.75                   | 23.81                   | 24.02                   | 23.92                   | 23.87                   | 0-0.5                              | 0.0         |
|                            | 50      | 0         | 23.84                   | 23.96                   | 24.11                   | 23.99                   | 23.93                   |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK         | 1       | 1         | 24.51                   | 24.59                   | 24.63                   | 24.57                   | 24.50                   | 0                                  | 0.0         |
|                            | 1       | 26        | 24.16                   | 24.23                   | 24.34                   | 24.35                   | 24.16                   |                                    | 0.0         |
|                            | 1       | 49        | 24.67                   | 24.61                   | 24.81                   | 24.77                   | 24.75                   |                                    | 0.0         |
|                            | 25      | 0         | 22.95                   | 23.09                   | 23.35                   | 23.23                   | 23.19                   | 0-1                                | 1.0         |
|                            | 25      | 13        | 23.88                   | 24.00                   | 24.06                   | 24.05                   | 23.94                   | 0                                  | 0.0         |
|                            | 25      | 26        | 23.08                   | 23.13                   | 23.47                   | 23.36                   | 23.29                   | 0-1                                | 1.0         |
|                            | 50      | 0         | 22.91                   | 23.02                   | 23.31                   | 23.26                   | 23.18                   |                                    | 1.0         |
| DFT-s-OFDM<br>16QAM        | 1       | 1         | 23.63                   | 23.75                   | 23.92                   | 23.89                   | 23.74                   | 0-1                                | 1.0         |
| CP-OFDM<br>QPSK            | 1       | 1         | 23.08                   | 23.21                   | 23.39                   | 23.32                   | 23.33                   | 0-1.5                              | 1.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 124 of 224                                                                       |                                 |

**Table 9-130**  
**NR Band n41 Measured  $P_{limit}$  for DSI = 1 (Head, Body worn, and Phablet Max), DSI = 5 (Hotspot mode)**  
**and/or DSI = 8 (Phablet with grip sensor 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)  |                                    |             |
|                                  |         |           | Conducted<br>Power [dBm] |                                    |             |
| DFT-s-OFDM<br>$\pi/2$ BPSK       | 1       | 1         | 23.39                    | 0                                  | 0.0         |
|                                  | 1       | 137       | 23.37                    |                                    | 0.0         |
|                                  | 1       | 271       | 23.41                    |                                    | 0.0         |
|                                  | 135     | 0         | 23.38                    | 0-0.5                              | 0.0         |
|                                  | 135     | 69        | 23.42                    | 0                                  | 0.0         |
|                                  | 135     | 138       | 23.34                    | 0-0.5                              | 0.0         |
|                                  | 270     | 0         | 23.31                    |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK               | 1       | 1         | 23.33                    | 0                                  | 0.0         |
|                                  | 1       | 137       | 23.44                    |                                    | 0.0         |
|                                  | 1       | 271       | <b>23.47</b>             |                                    | 0.0         |
|                                  | 135     | 0         | 23.27                    | 0-1                                | 0.0         |
|                                  | 135     | 69        | 23.21                    | 0                                  | 0.0         |
|                                  | 135     | 138       | <b>23.28</b>             | 0-1                                | 0.0         |
|                                  | 270     | 0         | 23.25                    |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM              | 1       | 1         | 23.66                    | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                  | 1       | 1         | 23.01                    | 0-1.5                              | 0.5         |

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: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset | Page 125 of 224                                                                       |                                 |

Table 9-131

NR Band n41 Measured  $P_{limit}$  for DSI = 1 (Head, Body worn, and Phablet Max), DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 23.58                 | 23.22                   | 0                                  | 0.0         |
|                                 | 1       | 123       | 23.36                 | 23.28                   |                                    | 0.0         |
|                                 | 1       | 243       | 23.49                 | 23.15                   |                                    | 0.0         |
|                                 | 120     | 0         | 23.22                 | 23.24                   | 0-0.5                              | 0.0         |
|                                 | 120     | 63        | 23.31                 | 23.12                   | 0                                  | 0.0         |
|                                 | 120     | 125       | 23.16                 | 23.23                   | 0-0.5                              | 0.0         |
|                                 | 243     | 0         | 23.21                 | 23.18                   |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 23.49                 | 23.32                   | 0                                  | 0.0         |
|                                 | 1       | 123       | 23.39                 | 23.05                   |                                    | 0.0         |
|                                 | 1       | 243       | 23.44                 | 23.17                   |                                    | 0.0         |
|                                 | 120     | 0         | 23.15                 | 23.24                   | 0-1                                | 0.0         |
|                                 | 120     | 63        | 23.34                 | 23.15                   | 0                                  | 0.0         |
|                                 | 120     | 125       | 23.26                 | 23.23                   | 0-1                                | 0.0         |
|                                 | 243     | 0         | 23.07                 | 23.20                   |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.48                 | 23.35                   | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 23.23                 | 22.93                   | 0-1.5                              | 0.5         |

FCC ID: ZNFG900UM



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Test Dates:

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DUT Type:

Portable Handset

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Table 9-132

NR Band n41 Measured  $P_{limit}$  for DSI = 1 (Head, Body worn, and Phablet Max), DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 23.48                   | 23.29                   | 0                                  | 0.0         |
|                                 | 1       | 109       | 23.43                   | 23.37                   |                                    | 0.0         |
|                                 | 1       | 215       | 23.50                   | 23.31                   |                                    | 0.0         |
|                                 | 108     | 0         | 23.25                   | 23.34                   | 0-0.5                              | 0.0         |
|                                 | 108     | 55        | 23.19                   | 23.22                   | 0                                  | 0.0         |
|                                 | 108     | 109       | 23.33                   | 23.30                   | 0-0.5                              | 0.0         |
|                                 | 216     | 0         | 23.30                   | 23.25                   |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 23.17                   | 23.42                   | 0                                  | 0.0         |
|                                 | 1       | 109       | 23.06                   | 23.50                   |                                    | 0.0         |
|                                 | 1       | 215       | 23.44                   | 23.47                   |                                    | 0.0         |
|                                 | 108     | 0         | 23.14                   | 23.18                   | 0-1                                | 0.0         |
|                                 | 108     | 55        | 23.23                   | 23.27                   | 0                                  | 0.0         |
|                                 | 108     | 109       | 23.18                   | 23.21                   | 0-1                                | 0.0         |
|                                 | 216     | 0         | 23.26                   | 23.24                   |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.42                   | 23.66                   | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 22.78                   | 23.27                   | 0-1.5                              | 0.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
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| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 127 of 224                 |

Table 9-133

NR Band n41 Measured  $P_{limit}$  for DSI = 1 (Head, Body worn, and Phablet Max), DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 23.31                 | 23.22                   | 23.05                   | 0                                  | 0.0         |
|                                 | 1       | 81        | 23.22                 | 23.48                   | 23.11                   |                                    | 0.0         |
|                                 | 1       | 160       | 23.33                 | 23.37                   | 23.27                   |                                    | 0.0         |
|                                 | 81      | 0         | 23.43                 | 23.32                   | 23.13                   | 0-0.5                              | 0.0         |
|                                 | 81      | 41        | 23.28                 | 23.49                   | 23.26                   | 0                                  | 0.0         |
|                                 | 81      | 81        | 23.35                 | 23.54                   | 23.29                   | 0-0.5                              | 0.0         |
|                                 | 162     | 0         | 23.32                 | 23.51                   | 23.24                   |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 23.57                 | 23.62                   | 23.19                   | 0                                  | 0.0         |
|                                 | 1       | 81        | 23.43                 | 23.77                   | 23.37                   |                                    | 0.0         |
|                                 | 1       | 160       | 23.47                 | 23.46                   | 23.42                   |                                    | 0.0         |
|                                 | 81      | 0         | 23.33                 | 23.29                   | 23.22                   | 0-1                                | 0.0         |
|                                 | 81      | 41        | 23.35                 | 23.48                   | 23.17                   | 0                                  | 0.0         |
|                                 | 81      | 81        | 23.24                 | 23.41                   | 23.31                   | 0-1                                | 0.0         |
|                                 | 162     | 0         | 23.22                 | 23.38                   | 23.18                   |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.63                 | 23.79                   | 23.70                   | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 22.98                 | 22.97                   | 23.04                   | 0-1.5                              | 0.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
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| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 128 of 224                 |

Table 9-134

NR Band n41 Measured  $P_{limit}$  for DSI = 1 (Head, Body worn, and Phablet Max), DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 23.61                   | 23.68                   | 23.21                   | 0                                  | 0.0         |
|                                 | 1       | 67        | 23.58                   | 23.63                   | 23.13                   |                                    | 0.0         |
|                                 | 1       | 131       | 23.63                   | 23.81                   | 23.36                   |                                    | 0.0         |
|                                 | 64      | 0         | 23.32                   | 23.49                   | 23.18                   | 0-0.5                              | 0.0         |
|                                 | 64      | 35        | 23.28                   | 23.54                   | 23.14                   | 0                                  | 0.0         |
|                                 | 64      | 69        | 23.31                   | 23.46                   | 23.32                   | 0-0.5                              | 0.0         |
|                                 | 128     | 0         | 23.22                   | 23.38                   | 23.09                   |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 23.26                   | 23.24                   | 23.26                   | 0                                  | 0.0         |
|                                 | 1       | 67        | 23.23                   | 23.36                   | 23.12                   |                                    | 0.0         |
|                                 | 1       | 131       | 23.17                   | 23.47                   | 23.31                   |                                    | 0.0         |
|                                 | 64      | 0         | 23.20                   | 23.33                   | 23.11                   | 0-1                                | 0.0         |
|                                 | 64      | 35        | 23.26                   | 23.44                   | 23.24                   | 0                                  | 0.0         |
|                                 | 64      | 69        | 23.22                   | 23.48                   | 23.25                   | 0-1                                | 0.0         |
|                                 | 128     | 0         | 23.15                   | 23.26                   | 23.28                   |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.33                   | 23.21                   | 23.66                   | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 22.61                   | 23.05                   | 23.50                   | 0-1.5                              | 0.5         |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 129 of 224                 |

Table 9-135

NR Band n41 Measured  $P_{limit}$  for DSI = 1 (Head, Body worn, and Phablet Max), DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 23.71                   | 23.80                   | 23.75                   | 23.77                | 0                                  | 0.0                                |
|                                 | 1       | 53        | 23.57                   | 23.68                   | 23.81                   | 23.56                |                                    | 0.0                                |
|                                 | 1       | 104       | 23.66                   | 23.72                   | 23.59                   | 23.63                |                                    | 0.0                                |
|                                 | 50      | 0         | 23.62                   | 23.61                   | 23.68                   | 23.58                | 0-0.5                              | 0.0                                |
|                                 | 50      | 28        | 23.69                   | 23.70                   | 23.73                   | 23.61                | 0                                  | 0.0                                |
|                                 | 50      | 56        | 23.65                   | 23.79                   | 23.62                   | 23.66                | 0-0.5                              | 0.0                                |
|                                 | 100     | 0         | 23.66                   | 23.65                   | 23.71                   | 23.55                |                                    | 0.0                                |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 23.30                   | 23.77                   | 23.77                   | 23.52                | 0                                  | 0.0                                |
|                                 | 1       | 53        | 23.37                   | 23.63                   | 23.61                   | 23.60                |                                    | 0.0                                |
|                                 | 1       | 104       | 23.48                   | 23.82                   | 23.54                   | 23.80                |                                    | 0.0                                |
|                                 | 50      | 0         | 23.56                   | 23.67                   | 23.56                   | 23.69                | 0-1                                | 0.0                                |
|                                 | 50      | 28        | 23.62                   | 23.59                   | 23.63                   | 23.57                | 0                                  | 0.0                                |
|                                 | 50      | 56        | 23.47                   | 23.68                   | 23.72                   | 23.63                | 0-1                                | 0.0                                |
|                                 | 100     | 0         | 23.54                   | 23.64                   | 23.65                   | 23.67                |                                    | 0.0                                |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.23                   | 23.86                   | 23.38                   | 23.49                | 0-1                                | 0.0                                |
| CP-OFDM<br>QPSK                 | 1       | 1         | 22.93                   | 23.05                   | 23.43                   | 23.13                | 0-1.5                              | 0.5                                |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 130 of 224                 |

Table 9-136

NR Band n41 Measured  $P_{limit}$  for DSI = 1 (Head, Body worn, and Phablet Max), DSI = 5 (Hotspot mode) and/or DSI = 8 (Phablet with grip sensor 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         | 23.60                   | 23.43                   | 23.17                   | 23.39                   | 23.46                   | 0                                  | 0.0         |
|                                 | 1       | 26        | 23.47                   | 23.48                   | 23.29                   | 23.31                   | 23.54                   |                                    | 0.0         |
|                                 | 1       | 49        | 23.41                   | 23.62                   | 23.70                   | 23.23                   | 23.67                   |                                    | 0.0         |
|                                 | 25      | 0         | 23.62                   | 23.57                   | 23.27                   | 23.41                   | 23.35                   | 0-0.5                              | 0.0         |
|                                 | 25      | 13        | 23.56                   | 23.46                   | 23.21                   | 23.42                   | 23.51                   | 0                                  | 0.0         |
|                                 | 25      | 26        | 23.62                   | 23.61                   | 22.95                   | 23.51                   | 23.62                   | 0-0.5                              | 0.0         |
|                                 | 50      | 0         | 23.45                   | 23.50                   | 23.05                   | 23.29                   | 23.46                   |                                    | 0.0         |
| DFT-s-OFDM<br>QPSK              | 1       | 1         | 23.55                   | 23.44                   | 23.47                   | 23.38                   | 23.51                   | 0                                  | 0.0         |
|                                 | 1       | 26        | 23.48                   | 23.63                   | 23.29                   | 23.64                   | 23.67                   |                                    | 0.0         |
|                                 | 1       | 49        | 23.53                   | 23.50                   | 23.24                   | 23.56                   | 23.47                   |                                    | 0.0         |
|                                 | 25      | 0         | 23.59                   | 23.46                   | 23.21                   | 23.42                   | 23.53                   | 0-1                                | 0.0         |
|                                 | 25      | 13        | 23.57                   | 23.48                   | 23.31                   | 23.37                   | 23.39                   | 0                                  | 0.0         |
|                                 | 25      | 26        | 23.42                   | 23.37                   | 23.18                   | 23.33                   | 23.49                   | 0-1                                | 0.0         |
|                                 | 50      | 0         | 23.39                   | 23.33                   | 23.08                   | 23.46                   | 23.51                   |                                    | 0.0         |
| DFT-s-OFDM<br>16QAM             | 1       | 1         | 23.48                   | 23.29                   | 23.79                   | 23.42                   | 23.56                   | 0-1                                | 0.0         |
| CP-OFDM<br>QPSK                 | 1       | 1         | 22.91                   | 22.81                   | 22.83                   | 23.03                   | 23.09                   | 0-1.5                              | 0.5         |

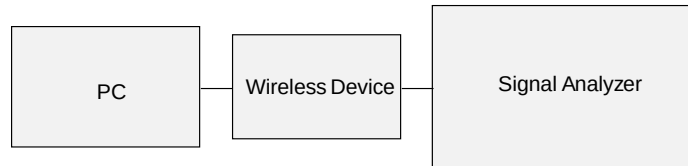


Figure 9-5  
Power Measurement Setup

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
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## 9.6 WLAN Conducted Powers

**Table 9-137**  
**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 | 802.11ac |
|                              |         | Average                | Average | Average | Average  |
| 2412                         | 1       | 20.14                  | 16.32   | 15.10   | 15.03    |
| 2422                         | 3       |                        | 19.00   | 17.62   | 17.65    |
| 2437                         | 6       | 19.99                  | 19.08   | 17.51   | 17.52    |
| 2452                         | 9       |                        | 19.07   | 17.79   | 17.79    |
| 2462                         | 11      | 19.99                  | 16.35   | 15.26   | 15.15    |

**Table 9-138**  
**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 | 802.11ac |
|                              |         | Average                | Average | Average | Average  |
| 2412                         | 1       | 19.82                  | 16.50   | 15.16   | 15.15    |
| 2422                         | 3       |                        | 19.04   | 17.96   | 17.94    |
| 2437                         | 6       | 20.09                  | 19.10   | 18.07   | 17.99    |
| 2452                         | 9       |                        | 19.12   | 18.04   | 17.94    |
| 2462                         | 11      | 20.10                  | 16.42   | 15.15   | 15.06    |

**Table 9-139**  
**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 | 802.11ac |
|                              |         | Average                | Average | Average | Average  |
| 2412                         | 1       | 15.75                  | 15.77   | 15.10   | 15.03    |
| 2422                         | 3       |                        |         | 15.77   | 15.83    |
| 2437                         | 6       | 15.72                  | 15.86   | 15.98   | 15.71    |
| 2452                         | 9       |                        |         | 16.17   | 15.91    |
| 2462                         | 11      | 15.78                  | 15.83   | 15.26   | 15.15    |

|                                         |                                                                                                                                                 |                               |                                                                                                 |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
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| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset | Page 132 of 224                                                                                 |                                 |

**Table 9-140**  
**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 | 802.11ac |
|                              |         | Average                | Average | Average | Average  |
| 2412                         | 1       | 15.63                  | 16.01   | 15.16   | 15.15    |
| 2422                         | 3       |                        |         | 16.00   | 15.95    |
| 2437                         | 6       | 16.12                  | 16.24   | 16.04   | 16.04    |
| 2452                         | 9       |                        |         | 16.13   | 15.89    |
| 2462                         | 11      | 15.61                  | 15.88   | 15.15   | 15.06    |

**Table 9-141**  
**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 |
|                                    |         | Average                | Average | Average  |
| 5180                               | 36      | 16.88                  | 16.93   | 16.46    |
| 5200                               | 40      | 18.92                  | 18.88   | 18.59    |
| 5220                               | 44      | 16.90                  | 16.91   | 16.58    |
| 5240                               | 48      | 16.82                  | 16.89   | 16.51    |
| 5260                               | 52      | 16.87                  | 16.89   | 16.51    |
| 5280                               | 56      | 18.87                  | 18.76   | 18.46    |
| 5300                               | 60      | 16.85                  | 16.83   | 16.47    |
| 5320                               | 64      | 16.85                  | 16.87   | 16.59    |
| 5500                               | 100     | 16.86                  | 16.88   | 16.70    |
| 5600                               | 120     | 16.92                  | 16.93   | 16.68    |
| 5620                               | 124     | 16.91                  | 16.89   | 16.61    |
| 5720                               | 144     | 16.96                  | 16.98   | 16.70    |
| 5745                               | 149     | 16.89                  | 16.87   | 16.58    |
| 5785                               | 157     | 18.86                  | 18.89   | 18.58    |
| 5825                               | 165     | 18.82                  | 18.88   | 18.50    |

|                                         |                                                                                                                                                 |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset |                                                                                       | Page 133 of 224                 |

**Table 9-142**  
**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 |
|                                    |         | Average                | Average | Average  |
| 5180                               | 36      | 16.89                  | 16.79   | 16.81    |
| 5200                               | 40      | 18.98                  | 18.91   | 18.91    |
| 5220                               | 44      | 16.86                  | 16.64   | 16.66    |
| 5240                               | 48      | 16.87                  | 16.74   | 16.70    |
| 5260                               | 52      | 16.73                  | 16.63   | 16.61    |
| 5280                               | 56      | 18.85                  | 18.61   | 18.70    |
| 5300                               | 60      | 16.71                  | 16.64   | 16.58    |
| 5320                               | 64      | 16.82                  | 16.73   | 16.70    |
| 5500                               | 100     | 16.77                  | 16.59   | 16.64    |
| 5600                               | 120     | 16.78                  | 16.66   | 16.61    |
| 5620                               | 124     | 16.77                  | 16.53   | 16.56    |
| 5720                               | 144     | 16.71                  | 16.56   | 16.52    |
| 5745                               | 149     | 16.89                  | 16.68   | 16.67    |
| 5785                               | 157     | 18.93                  | 18.93   | 18.96    |
| 5825                               | 165     | 18.92                  | 18.78   | 18.72    |

**Table 9-143**  
**5 GHz WLAN Maximum Average RF Power – MIMO**

| 5GHz (20MHz) 802.11n Conducted Power [dBm] |         |       |       |       |
|--------------------------------------------|---------|-------|-------|-------|
| Freq [MHz]                                 | Channel | ANT1  | ANT2  | MIMO  |
| 5180                                       | 36      | 16.93 | 16.79 | 19.87 |
| 5200                                       | 40      | 18.88 | 18.91 | 21.91 |
| 5220                                       | 44      | 16.91 | 16.64 | 19.79 |
| 5240                                       | 48      | 16.89 | 16.74 | 19.83 |
| 5260                                       | 52      | 16.89 | 16.63 | 19.77 |
| 5280                                       | 56      | 18.76 | 18.61 | 21.70 |
| 5300                                       | 60      | 16.83 | 16.64 | 19.75 |
| 5320                                       | 64      | 16.87 | 16.73 | 19.81 |
| 5500                                       | 100     | 16.88 | 16.59 | 19.75 |
| 5600                                       | 120     | 16.93 | 16.66 | 19.81 |
| 5620                                       | 124     | 16.89 | 16.53 | 19.72 |
| 5720                                       | 144     | 16.98 | 16.56 | 19.79 |
| 5745                                       | 149     | 16.87 | 16.68 | 19.79 |
| 5785                                       | 157     | 18.89 | 18.93 | 21.92 |
| 5825                                       | 165     | 18.88 | 18.78 | 21.84 |

|                                         |                                                                                                                                                 |                               |                                                                                                 |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset | Page 134 of 224                                                                                 |                                 |

**Table 9-144**  
**5 GHz WLAN Reduced Average RF Power– Ant 1**

| 5GHz (40MHz) Conducted Power [dBm] |         |                        |          |
|------------------------------------|---------|------------------------|----------|
| Freq [MHz]                         | Channel | IEEE Transmission Mode |          |
|                                    |         | 802.11n                | 802.11ac |
|                                    |         | Average                | Average  |
| 5190                               | 38      | 15.93                  | 15.99    |
| 5230                               | 46      | 15.78                  | 15.85    |
| 5270                               | 54      | 15.87                  | 15.91    |
| 5310                               | 62      | 14.30                  | 14.33    |
| 5510                               | 102     | 13.82                  | 13.81    |
| 5550                               | 110     | 15.69                  | 15.67    |
| 5590                               | 118     | 15.73                  | 15.68    |
| 5630                               | 126     | 15.85                  | 15.82    |
| 5710                               | 142     | 15.90                  | 15.83    |
| 5755                               | 151     | 15.78                  | 15.69    |
| 5795                               | 159     | 15.89                  | 15.83    |

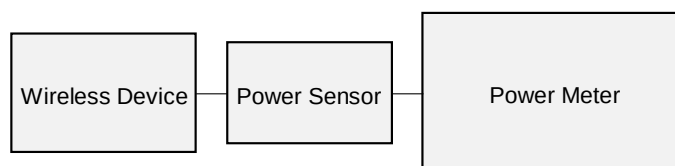
**Table 9-145**  
**5 GHz WLAN Reduced Average RF Power– Ant 2**

| 5GHz (40MHz) Conducted Power [dBm] |         |                        |          |
|------------------------------------|---------|------------------------|----------|
| Freq [MHz]                         | Channel | IEEE Transmission Mode |          |
|                                    |         | 802.11n                | 802.11ac |
|                                    |         | Average                | Average  |
| 5190                               | 38      | 15.74                  | 15.79    |
| 5230                               | 46      | 15.85                  | 15.86    |
| 5270                               | 54      | 15.79                  | 15.80    |
| 5310                               | 62      | 14.51                  | 14.50    |
| 5510                               | 102     | 14.02                  | 14.01    |
| 5550                               | 110     | 15.68                  | 15.67    |
| 5590                               | 118     | 15.69                  | 15.71    |
| 5630                               | 126     | 15.78                  | 15.81    |
| 5710                               | 142     | 15.89                  | 15.99    |
| 5755                               | 151     | 15.94                  | 15.93    |
| 5795                               | 159     | 15.96                  | 15.96    |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 135 of 224                 |

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**

## 9.7 Bluetooth Conducted Powers

**Table 9-146**  
**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              | 10.20                  | 10.461 |
| 2441               | 1.0                    | 39             | 10.16                  | 10.386 |
| 2480               | 1.0                    | 78             | 9.94                   | 9.851  |
| 2402               | 2.0                    | 0              | 9.55                   | 9.008  |
| 2441               | 2.0                    | 39             | 9.55                   | 9.017  |
| 2480               | 2.0                    | 78             | 9.35                   | 8.613  |
| 2402               | 3.0                    | 0              | 9.61                   | 9.150  |
| 2441               | 3.0                    | 39             | 9.60                   | 9.118  |
| 2480               | 3.0                    | 78             | 9.35                   | 8.618  |

|                                         |                                                                                                                                  |                               |                                                                                                 |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset |                                                                                                 | Page 136 of 224                 |

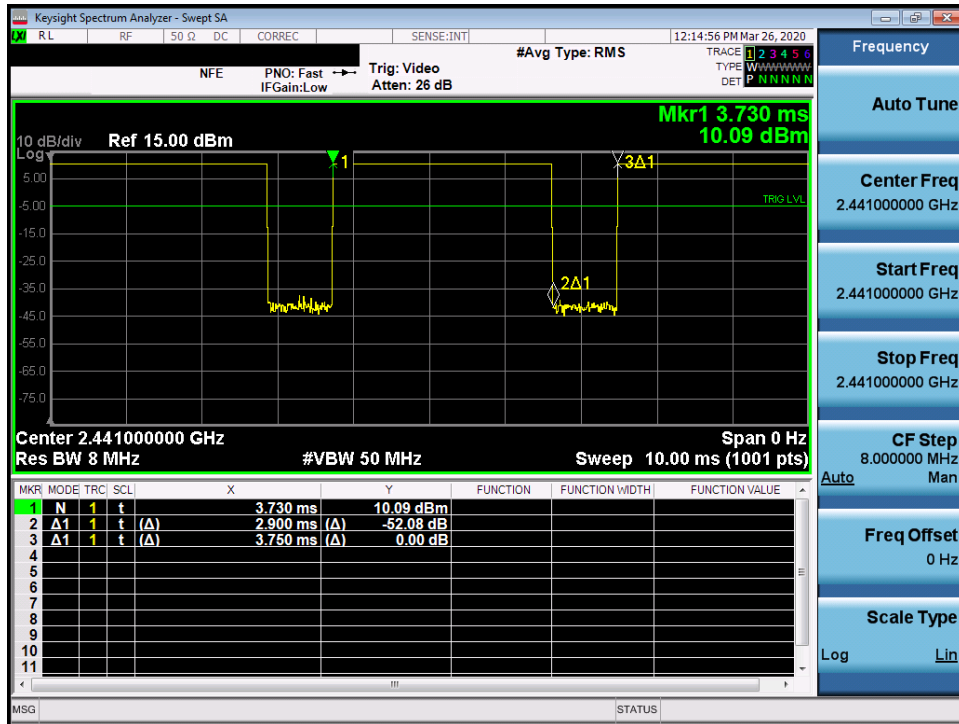


Figure 9-7  
Bluetooth Transmission Plot

Equation 9-1  
Bluetooth Duty Cycle Calculation

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

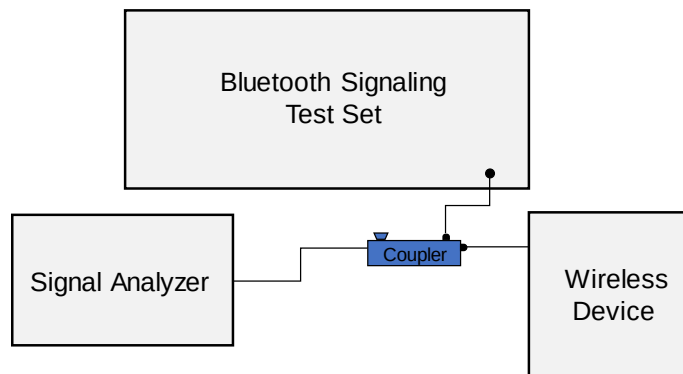


Figure 9-8  
Power Measurement Setup

|                                         |                                       |                               |    |                                 |
|-----------------------------------------|---------------------------------------|-------------------------------|----|---------------------------------|
| FCC ID: ZNFG900UM                       | PCTEST<br>Proud to be part of element | SAR EVALUATION REPORT         | LG | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20    | DUT Type:<br>Portable Handset |    | Page 137 of 224                 |

# 10 SYSTEM VERIFICATION

## 10.1 Tissue Verification

**Table 10-1**  
**Measured Tissue Properties - Head**

| 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 $\epsilon$ |
|------------------------------------|-------------|-------------------------------------|--------------------------|---------------------------------------|------------------------------------------|-------------------------------------|----------------------------------------|----------------|------------------|
| 5/17/2020                          | 750 Head    | 24.0                                | 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%            |
|                                    |             |                                     | 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%            |
|                                    |             |                                     | 785                      | 0.920                                 | 42.372                                   | 0.896                               | 41.760                                 | 2.68%          | 1.47%            |
| 5/20/2020                          | 750 Head    | 21.7                                | 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%           |
|                                    |             |                                     | 750                      | 0.875                                 | 41.554                                   | 0.894                               | 41.942                                 | -2.13%         | -0.93%           |
|                                    |             |                                     | 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%           |
| 6/15/2020                          | 750 Head    | 21.3                                | 800                      | 0.891                                 | 41.399                                   | 0.897                               | 41.682                                 | -0.67%         | -0.68%           |
|                                    |             |                                     | 680                      | 0.863                                 | 43.213                                   | 0.888                               | 42.305                                 | -2.82%         | 2.15%            |
|                                    |             |                                     | 695                      | 0.868                                 | 43.169                                   | 0.889                               | 42.227                                 | -2.36%         | 2.23%            |
| 5/20/2020                          | 835 Head    | 21.2                                | 750                      | 0.888                                 | 43.036                                   | 0.894                               | 41.942                                 | -0.67%         | 2.61%            |
|                                    |             |                                     | 820                      | 0.896                                 | 40.883                                   | 0.899                               | 41.578                                 | -0.33%         | -1.67%           |
|                                    |             |                                     | 835                      | 0.902                                 | 40.830                                   | 0.900                               | 41.500                                 | 0.22%          | -1.61%           |
| 5/28/2020                          | 835 Head    | 21.7                                | 850                      | 0.908                                 | 40.777                                   | 0.916                               | 41.500                                 | -0.87%         | -1.74%           |
|                                    |             |                                     | 820                      | 0.910                                 | 40.616                                   | 0.899                               | 41.578                                 | 1.22%          | -2.31%           |
|                                    |             |                                     | 835                      | 0.915                                 | 40.568                                   | 0.900                               | 41.500                                 | 1.67%          | -2.25%           |
| 06/01/2020                         | 835 Head    | 21.1                                | 850                      | 0.921                                 | 40.525                                   | 0.916                               | 41.500                                 | 0.55%          | -2.35%           |
|                                    |             |                                     | 820                      | 0.899                                 | 41.168                                   | 0.899                               | 41.578                                 | 0.00%          | -0.99%           |
|                                    |             |                                     | 835                      | 0.904                                 | 41.119                                   | 0.900                               | 41.500                                 | 0.44%          | -0.92%           |
| 5/13/2020                          | 1750 Head   | 21.0                                | 850                      | 0.909                                 | 41.078                                   | 0.916                               | 41.500                                 | -0.76%         | -1.02%           |
|                                    |             |                                     | 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%            |
|                                    |             |                                     | 1750                     | 1.338                                 | 40.620                                   | 1.371                               | 40.079                                 | -2.41%         | 1.35%            |
| 6/10/2020                          | 1750 Head   | 21.7                                | 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%            |
|                                    |             |                                     | 1710                     | 1.331                                 | 39.316                                   | 1.348                               | 40.142                                 | -1.26%         | -2.06%           |
|                                    |             |                                     | 1720                     | 1.336                                 | 39.313                                   | 1.354                               | 40.126                                 | -1.33%         | -2.03%           |
|                                    |             |                                     | 1745                     | 1.349                                 | 39.271                                   | 1.368                               | 40.087                                 | -1.39%         | -2.04%           |
| 05/18/2020                         | 1900 Head   | 21.9                                | 1750                     | 1.353                                 | 39.243                                   | 1.371                               | 40.079                                 | -1.31%         | -2.09%           |
|                                    |             |                                     | 1770                     | 1.366                                 | 39.216                                   | 1.383                               | 40.047                                 | -1.23%         | -2.08%           |
|                                    |             |                                     | 1790                     | 1.377                                 | 39.171                                   | 1.394                               | 40.016                                 | -1.22%         | -2.11%           |
|                                    |             |                                     | 1850                     | 1.409                                 | 40.313                                   | 1.400                               | 40.000                                 | 0.64%          | 0.78%            |
|                                    |             |                                     | 1860                     | 1.415                                 | 40.297                                   | 1.400                               | 40.000                                 | 1.07%          | 0.74%            |
| 6/12/2020                          | 1900 Head   | 21.8                                | 1880                     | 1.426                                 | 40.270                                   | 1.400                               | 40.000                                 | 1.86%          | 0.68%            |
|                                    |             |                                     | 1900                     | 1.437                                 | 40.242                                   | 1.400                               | 40.000                                 | 2.64%          | 0.60%            |
|                                    |             |                                     | 1905                     | 1.440                                 | 40.235                                   | 1.400                               | 40.000                                 | 2.86%          | 0.59%            |
|                                    |             |                                     | 1910                     | 1.443                                 | 40.226                                   | 1.400                               | 40.000                                 | 3.07%          | 0.56%            |
|                                    |             |                                     | 1850                     | 1.397                                 | 39.547                                   | 1.400                               | 40.000                                 | -0.21%         | -1.13%           |
|                                    |             |                                     | 1860                     | 1.409                                 | 39.498                                   | 1.400                               | 40.000                                 | 0.64%          | -1.26%           |
|                                    |             |                                     | 1880                     | 1.429                                 | 39.398                                   | 1.400                               | 40.000                                 | 2.07%          | -1.50%           |
|                                    |             |                                     | 1900                     | 1.451                                 | 39.329                                   | 1.400                               | 40.000                                 | 3.64%          | -1.68%           |
|                                    |             |                                     | 1905                     | 1.456                                 | 39.293                                   | 1.400                               | 40.000                                 | 4.00%          | -1.77%           |
|                                    |             |                                     | 1910                     | 1.462                                 | 39.281                                   | 1.400                               | 40.000                                 | 4.43%          | -1.80%           |

|                                         |                                                                                                                                  |                               |                                                                                                 |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset |                                                                                                 | Page 138 of 224                 |

**Table 10-2**  
**Measured Tissue Properties – Head Continued**

| 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 $\epsilon$ |
|------------------------------------|----------------|-------------------------------------|--------------------------|---------------------------------------|------------------------------------------|-------------------------------------|----------------------------------------|----------------|------------------|
| 5/6/2020                           | 2450 Head      | 22.2                                | 2400                     | 1.777                                 | 38.710                                   | 1.756                               | 39.289                                 | 1.20%          | -1.47%           |
|                                    |                |                                     | 2450                     | 1.818                                 | 38.641                                   | 1.800                               | 39.200                                 | 1.00%          | -1.43%           |
|                                    |                |                                     | 2480                     | 1.843                                 | 38.593                                   | 1.833                               | 39.162                                 | 0.55%          | -1.45%           |
|                                    |                |                                     | 2500                     | 1.860                                 | 38.562                                   | 1.855                               | 39.136                                 | 0.27%          | -1.47%           |
|                                    |                |                                     | 2510                     | 1.868                                 | 38.546                                   | 1.866                               | 39.123                                 | 0.11%          | -1.47%           |
|                                    |                |                                     | 2535                     | 1.889                                 | 38.507                                   | 1.893                               | 39.092                                 | -0.21%         | -1.50%           |
|                                    |                |                                     | 2550                     | 1.902                                 | 38.485                                   | 1.909                               | 39.073                                 | -0.37%         | -1.50%           |
|                                    |                |                                     | 2560                     | 1.911                                 | 38.470                                   | 1.920                               | 39.060                                 | -0.47%         | -1.51%           |
|                                    |                |                                     | 2600                     | 1.946                                 | 38.407                                   | 1.964                               | 39.009                                 | -0.92%         | -1.54%           |
|                                    |                |                                     | 2650                     | 1.988                                 | 38.323                                   | 2.018                               | 38.945                                 | -1.49%         | -1.60%           |
|                                    |                |                                     | 2680                     | 2.012                                 | 38.267                                   | 2.051                               | 38.907                                 | -1.90%         | -1.64%           |
|                                    |                |                                     | 2700                     | 2.029                                 | 38.231                                   | 2.073                               | 38.882                                 | -2.12%         | -1.67%           |
| 05/10/2020                         | 2450 Head      | 23.8                                | 2300                     | 1.683                                 | 39.462                                   | 1.670                               | 39.500                                 | 0.78%          | -0.10%           |
|                                    |                |                                     | 2310                     | 1.690                                 | 39.446                                   | 1.679                               | 39.480                                 | 0.66%          | -0.09%           |
|                                    |                |                                     | 2320                     | 1.696                                 | 39.431                                   | 1.687                               | 39.460                                 | 0.53%          | -0.07%           |
|                                    |                |                                     | 2400                     | 1.751                                 | 39.345                                   | 1.756                               | 39.289                                 | -0.28%         | 0.14%            |
|                                    |                |                                     | 2450                     | 1.787                                 | 39.278                                   | 1.800                               | 39.200                                 | -0.72%         | 0.20%            |
|                                    |                |                                     | 2480                     | 1.807                                 | 39.245                                   | 1.833                               | 39.162                                 | -1.42%         | 0.21%            |
| 06/10/2020                         | 2450 Head      | 21.5                                | 2500                     | 1.821                                 | 39.218                                   | 1.855                               | 39.136                                 | -1.83%         | 0.21%            |
|                                    |                |                                     | 2560                     | 1.863                                 | 40.024                                   | 1.920                               | 39.060                                 | -2.97%         | 2.47%            |
|                                    |                |                                     | 2600                     | 1.892                                 | 39.969                                   | 1.964                               | 39.009                                 | -3.67%         | 2.46%            |
|                                    |                |                                     | 2650                     | 1.932                                 | 39.874                                   | 2.018                               | 38.945                                 | -4.26%         | 2.39%            |
|                                    |                |                                     | 2680                     | 1.959                                 | 39.828                                   | 2.051                               | 38.907                                 | -4.49%         | 2.37%            |
| 6/19/2020                          | 2450 Head      | 22.4                                | 2700                     | 1.975                                 | 39.800                                   | 2.073                               | 38.882                                 | -4.73%         | 2.36%            |
|                                    |                |                                     | 2400                     | 1.754                                 | 40.161                                   | 1.756                               | 39.289                                 | -0.11%         | 2.22%            |
|                                    |                |                                     | 2450                     | 1.791                                 | 40.085                                   | 1.800                               | 39.200                                 | -0.50%         | 2.26%            |
|                                    |                |                                     | 2480                     | 1.815                                 | 40.027                                   | 1.833                               | 39.162                                 | -0.98%         | 2.21%            |
| 05/07/2020                         | 5200-5800 Head | 22.0                                | 2500                     | 1.831                                 | 39.999                                   | 1.855                               | 39.136                                 | -1.29%         | 2.21%            |
|                                    |                |                                     | 5180                     | 4.570                                 | 35.278                                   | 4.635                               | 36.009                                 | -1.40%         | -2.03%           |
|                                    |                |                                     | 5190                     | 4.579                                 | 35.269                                   | 4.645                               | 35.998                                 | -1.42%         | -2.03%           |
|                                    |                |                                     | 5200                     | 4.587                                 | 35.250                                   | 4.655                               | 35.986                                 | -1.46%         | -2.05%           |
|                                    |                |                                     | 5210                     | 4.595                                 | 35.224                                   | 4.666                               | 35.975                                 | -1.52%         | -2.09%           |
|                                    |                |                                     | 5220                     | 4.604                                 | 35.196                                   | 4.676                               | 35.963                                 | -1.54%         | -2.13%           |
|                                    |                |                                     | 5240                     | 4.627                                 | 35.150                                   | 4.696                               | 35.940                                 | -1.47%         | -2.20%           |
|                                    |                |                                     | 5250                     | 4.644                                 | 35.124                                   | 4.706                               | 35.929                                 | -1.32%         | -2.24%           |
|                                    |                |                                     | 5260                     | 4.657                                 | 35.104                                   | 4.717                               | 35.917                                 | -1.27%         | -2.26%           |
|                                    |                |                                     | 5270                     | 4.670                                 | 35.085                                   | 4.727                               | 35.906                                 | -1.21%         | -2.29%           |
|                                    |                |                                     | 5280                     | 4.678                                 | 35.070                                   | 4.737                               | 35.894                                 | -1.25%         | -2.30%           |
|                                    |                |                                     | 5290                     | 4.689                                 | 35.062                                   | 4.748                               | 35.883                                 | -1.24%         | -2.29%           |
|                                    |                |                                     | 5300                     | 4.702                                 | 35.059                                   | 4.758                               | 35.871                                 | -1.18%         | -2.26%           |
|                                    |                |                                     | 5310                     | 4.712                                 | 35.043                                   | 4.768                               | 35.860                                 | -1.17%         | -2.28%           |
|                                    |                |                                     | 5320                     | 4.720                                 | 35.023                                   | 4.778                               | 35.849                                 | -1.21%         | -2.30%           |
|                                    |                |                                     | 5500                     | 4.919                                 | 34.690                                   | 4.963                               | 35.643                                 | -0.89%         | -2.67%           |
|                                    |                |                                     | 5510                     | 4.932                                 | 34.673                                   | 4.973                               | 35.632                                 | -0.82%         | -2.69%           |
|                                    |                |                                     | 5520                     | 4.945                                 | 34.663                                   | 4.983                               | 35.620                                 | -0.76%         | -2.69%           |
|                                    |                |                                     | 5530                     | 4.957                                 | 34.654                                   | 4.994                               | 35.609                                 | -0.74%         | -2.68%           |
|                                    |                |                                     | 5540                     | 4.966                                 | 34.634                                   | 5.004                               | 35.597                                 | -0.76%         | -2.71%           |
|                                    |                |                                     | 5550                     | 4.975                                 | 34.609                                   | 5.014                               | 35.586                                 | -0.78%         | -2.75%           |
|                                    |                |                                     | 5560                     | 4.983                                 | 34.589                                   | 5.024                               | 35.574                                 | -0.82%         | -2.77%           |
|                                    |                |                                     | 5580                     | 5.005                                 | 34.555                                   | 5.045                               | 35.551                                 | -0.79%         | -2.80%           |
|                                    |                |                                     | 5600                     | 5.030                                 | 34.514                                   | 5.065                               | 35.529                                 | -0.69%         | -2.86%           |
|                                    |                |                                     | 5610                     | 5.043                                 | 34.495                                   | 5.076                               | 35.518                                 | -0.65%         | -2.88%           |
|                                    |                |                                     | 5620                     | 5.058                                 | 34.483                                   | 5.086                               | 35.506                                 | -0.55%         | -2.88%           |
|                                    |                |                                     | 5640                     | 5.087                                 | 34.455                                   | 5.106                               | 35.483                                 | -0.37%         | -2.90%           |
|                                    |                |                                     | 5660                     | 5.104                                 | 34.411                                   | 5.127                               | 35.460                                 | -0.45%         | -2.96%           |
|                                    |                |                                     | 5670                     | 5.112                                 | 34.401                                   | 5.137                               | 35.449                                 | -0.49%         | -2.96%           |
|                                    |                |                                     | 5680                     | 5.125                                 | 34.388                                   | 5.147                               | 35.437                                 | -0.43%         | -2.96%           |
|                                    |                |                                     | 5690                     | 5.138                                 | 34.365                                   | 5.158                               | 35.426                                 | -0.39%         | -2.99%           |
|                                    |                |                                     | 5700                     | 5.149                                 | 34.337                                   | 5.168                               | 35.414                                 | -0.37%         | -3.04%           |
|                                    |                |                                     | 5710                     | 5.160                                 | 34.314                                   | 5.178                               | 35.403                                 | -0.35%         | -3.08%           |
|                                    |                |                                     | 5720                     | 5.172                                 | 34.299                                   | 5.188                               | 35.391                                 | -0.31%         | -3.09%           |
|                                    |                |                                     | 5745                     | 5.201                                 | 34.265                                   | 5.214                               | 35.363                                 | -0.25%         | -3.10%           |
|                                    |                |                                     | 5750                     | 5.207                                 | 34.257                                   | 5.219                               | 35.357                                 | -0.23%         | -3.11%           |
|                                    |                |                                     | 5755                     | 5.213                                 | 34.249                                   | 5.224                               | 35.351                                 | -0.21%         | -3.12%           |
|                                    |                |                                     | 5765                     | 5.224                                 | 34.234                                   | 5.234                               | 35.340                                 | -0.19%         | -3.13%           |
|                                    |                |                                     | 5775                     | 5.234                                 | 34.220                                   | 5.245                               | 35.329                                 | -0.21%         | -3.14%           |
|                                    |                |                                     | 5785                     | 5.245                                 | 34.196                                   | 5.255                               | 35.317                                 | -0.19%         | -3.17%           |
|                                    |                |                                     | 5795                     | 5.255                                 | 34.175                                   | 5.265                               | 35.305                                 | -0.19%         | -3.20%           |
|                                    |                |                                     | 5800                     | 5.260                                 | 34.165                                   | 5.270                               | 35.300                                 | -0.19%         | -3.22%           |
|                                    |                |                                     | 5805                     | 5.266                                 | 34.160                                   | 5.275                               | 35.294                                 | -0.17%         | -3.21%           |
|                                    |                |                                     | 5825                     | 5.290                                 | 34.128                                   | 5.296                               | 35.271                                 | -0.11%         | -3.24%           |

|                                                |                                                                                                                                                 |                                      |                                                                                                 |                        |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------|------------------------|
| FCC ID: ZNFG900UM                              |  <b>PCTEST</b><br><small>Proud to be part of element</small> | <b>SAR EVALUATION REPORT</b>         |  <b>LG</b> | <b>Approved by:</b>    |
| <b>Document S/N:</b><br>1M2004150063-01-R1.ZNF | <b>Test Dates:</b><br>04/27/20 – 06/25/20                                                                                                       | <b>DUT Type:</b><br>Portable Handset |                                                                                                 | <b>Quality Manager</b> |
|                                                |                                                                                                                                                 |                                      |                                                                                                 | Page 139 of 224        |

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

| 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 $\epsilon$ |
|------------------------------------|-------------|-------------------------------------|--------------------------|---------------------------------------|------------------------------------------|-------------------------------------|----------------------------------------|----------------|------------------|
| 04/29/2020                         | 750 Body    | 20.4                                | 680                      | 0.934                                 | 54.108                                   | 0.958                               | 55.804                                 | -2.51%         | -3.04%           |
|                                    |             |                                     | 695                      | 0.940                                 | 54.067                                   | 0.959                               | 55.745                                 | -1.98%         | -3.01%           |
|                                    |             |                                     | 700                      | 0.942                                 | 54.056                                   | 0.959                               | 55.726                                 | -1.77%         | -3.00%           |
|                                    |             |                                     | 710                      | 0.945                                 | 54.029                                   | 0.960                               | 55.687                                 | -1.56%         | -2.98%           |
|                                    |             |                                     | 725                      | 0.951                                 | 53.989                                   | 0.961                               | 55.629                                 | -1.04%         | -2.95%           |
|                                    |             |                                     | 750                      | 0.960                                 | 53.912                                   | 0.964                               | 55.531                                 | -0.41%         | -2.92%           |
|                                    |             |                                     | 770                      | 0.969                                 | 53.854                                   | 0.965                               | 55.453                                 | 0.41%          | -2.88%           |
|                                    |             |                                     | 785                      | 0.975                                 | 53.816                                   | 0.966                               | 55.395                                 | 0.93%          | -2.85%           |
| 06/22/2020                         | 750 Body    | 23.5                                | 800                      | 0.980                                 | 53.777                                   | 0.967                               | 55.336                                 | 1.34%          | -2.82%           |
|                                    |             |                                     | 680                      | 0.926                                 | 56.823                                   | 0.958                               | 55.804                                 | -3.34%         | 1.83%            |
|                                    |             |                                     | 695                      | 0.930                                 | 56.794                                   | 0.959                               | 55.745                                 | -3.02%         | 1.88%            |
| 5/26/2020                          | 835 Body    | 21.8                                | 750                      | 0.951                                 | 56.673                                   | 0.964                               | 55.531                                 | -1.35%         | 2.06%            |
|                                    |             |                                     | 820                      | 0.939                                 | 53.742                                   | 0.969                               | 55.258                                 | -3.10%         | -2.74%           |
|                                    |             |                                     | 835                      | 0.954                                 | 53.587                                   | 0.970                               | 55.200                                 | -1.65%         | -2.92%           |
| 06/15/2020                         | 835 Body    | 21.7                                | 850                      | 0.969                                 | 53.442                                   | 0.988                               | 55.154                                 | -1.92%         | -3.10%           |
|                                    |             |                                     | 820                      | 0.946                                 | 53.588                                   | 0.969                               | 55.258                                 | -2.37%         | -3.02%           |
|                                    |             |                                     | 835                      | 0.961                                 | 53.410                                   | 0.970                               | 55.200                                 | -0.93%         | -3.24%           |
| 4/29/2020                          | 1750 Body   | 22.2                                | 850                      | 0.977                                 | 53.282                                   | 0.988                               | 55.154                                 | -1.11%         | -3.39%           |
|                                    |             |                                     | 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%           |
| 5/27/2020                          | 1750 Body   | 21.6                                | 1790                     | 1.575                                 | 51.661                                   | 1.514                               | 53.326                                 | 4.03%          | -3.12%           |
|                                    |             |                                     | 1710                     | 1.465                                 | 51.310                                   | 1.463                               | 53.537                                 | 0.14%          | -4.16%           |
|                                    |             |                                     | 1720                     | 1.476                                 | 51.271                                   | 1.469                               | 53.511                                 | 0.48%          | -4.19%           |
|                                    |             |                                     | 1745                     | 1.504                                 | 51.189                                   | 1.485                               | 53.445                                 | 1.28%          | -4.22%           |
|                                    |             |                                     | 1750                     | 1.510                                 | 51.172                                   | 1.488                               | 53.432                                 | 1.48%          | -4.23%           |
|                                    |             |                                     | 1770                     | 1.532                                 | 51.104                                   | 1.501                               | 53.379                                 | 2.07%          | -4.26%           |
| 6/15/2020                          | 1750 Body   | 21.2                                | 1790                     | 1.554                                 | 51.019                                   | 1.514                               | 53.326                                 | 2.64%          | -4.33%           |
|                                    |             |                                     | 1710                     | 1.459                                 | 52.152                                   | 1.463                               | 53.537                                 | -0.27%         | -2.59%           |
|                                    |             |                                     | 1720                     | 1.466                                 | 52.133                                   | 1.469                               | 53.511                                 | -0.20%         | -2.58%           |
|                                    |             |                                     | 1745                     | 1.482                                 | 52.084                                   | 1.485                               | 53.445                                 | -0.20%         | -2.55%           |
|                                    |             |                                     | 1750                     | 1.486                                 | 52.075                                   | 1.488                               | 53.432                                 | -0.13%         | -2.54%           |
|                                    |             |                                     | 1770                     | 1.499                                 | 52.043                                   | 1.501                               | 53.379                                 | -0.13%         | -2.50%           |
| 06/17/2020                         | 1750 Body   | 21.1                                | 1790                     | 1.512                                 | 52.012                                   | 1.514                               | 53.326                                 | -0.13%         | -2.46%           |
|                                    |             |                                     | 1710                     | 1.472                                 | 52.149                                   | 1.463                               | 53.537                                 | 0.62%          | -2.59%           |
|                                    |             |                                     | 1720                     | 1.483                                 | 52.123                                   | 1.469                               | 53.511                                 | 0.95%          | -2.59%           |
|                                    |             |                                     | 1745                     | 1.512                                 | 52.047                                   | 1.485                               | 53.445                                 | 1.82%          | -2.62%           |
|                                    |             |                                     | 1750                     | 1.518                                 | 52.031                                   | 1.488                               | 53.432                                 | 2.02%          | -2.62%           |
|                                    |             |                                     | 1770                     | 1.542                                 | 51.963                                   | 1.501                               | 53.379                                 | 2.73%          | -2.65%           |
| 06/21/2020                         | 1750 Body   | 21.8                                | 1790                     | 1.566                                 | 51.891                                   | 1.514                               | 53.326                                 | 3.43%          | -2.69%           |
|                                    |             |                                     | 1710                     | 1.468                                 | 52.235                                   | 1.463                               | 53.537                                 | 0.34%          | -2.43%           |
|                                    |             |                                     | 1720                     | 1.479                                 | 52.195                                   | 1.469                               | 53.511                                 | 0.68%          | -2.46%           |
|                                    |             |                                     | 1745                     | 1.507                                 | 52.105                                   | 1.485                               | 53.445                                 | 1.48%          | -2.51%           |
|                                    |             |                                     | 1750                     | 1.512                                 | 52.086                                   | 1.488                               | 53.432                                 | 1.61%          | -2.52%           |
|                                    |             |                                     | 1770                     | 1.533                                 | 52.007                                   | 1.501                               | 53.379                                 | 2.13%          | -2.57%           |
| 6/10/2020                          | 1900 Body   | 23.0                                | 1790                     | 1.554                                 | 51.932                                   | 1.514                               | 53.326                                 | 2.64%          | -2.61%           |
|                                    |             |                                     | 1850                     | 1.524                                 | 52.433                                   | 1.520                               | 53.300                                 | 0.26%          | -1.63%           |
|                                    |             |                                     | 1860                     | 1.536                                 | 52.397                                   | 1.520                               | 53.300                                 | 1.05%          | -1.69%           |
|                                    |             |                                     | 1880                     | 1.559                                 | 52.326                                   | 1.520                               | 53.300                                 | 2.57%          | -1.83%           |
|                                    |             |                                     | 1900                     | 1.582                                 | 52.251                                   | 1.520                               | 53.300                                 | 4.08%          | -1.97%           |
|                                    |             |                                     | 1905                     | 1.587                                 | 52.232                                   | 1.520                               | 53.300                                 | 4.41%          | -2.00%           |
| 6/15/2020                          | 1900 Body   | 23.2                                | 1910                     | 1.593                                 | 52.212                                   | 1.520                               | 53.300                                 | 4.80%          | -2.04%           |
|                                    |             |                                     | 1850                     | 1.528                                 | 51.829                                   | 1.520                               | 53.300                                 | 0.53%          | -2.76%           |
|                                    |             |                                     | 1860                     | 1.539                                 | 51.803                                   | 1.520                               | 53.300                                 | 1.25%          | -2.81%           |
|                                    |             |                                     | 1880                     | 1.561                                 | 51.753                                   | 1.520                               | 53.300                                 | 2.70%          | -2.90%           |
|                                    |             |                                     | 1900                     | 1.584                                 | 51.694                                   | 1.520                               | 53.300                                 | 4.21%          | -3.01%           |
|                                    |             |                                     | 1905                     | 1.589                                 | 51.678                                   | 1.520                               | 53.300                                 | 4.54%          | -3.04%           |
| 06/18/2020                         | 1900 Body   | 23.0                                | 1910                     | 1.595                                 | 51.661                                   | 1.520                               | 53.300                                 | 4.93%          | -3.08%           |
|                                    |             |                                     | 1850                     | 1.525                                 | 51.880                                   | 1.520                               | 53.300                                 | 0.33%          | -2.66%           |
|                                    |             |                                     | 1860                     | 1.537                                 | 51.844                                   | 1.520                               | 53.300                                 | 1.12%          | -2.73%           |
|                                    |             |                                     | 1880                     | 1.560                                 | 51.770                                   | 1.520                               | 53.300                                 | 2.63%          | -2.87%           |
|                                    |             |                                     | 1900                     | 1.582                                 | 51.697                                   | 1.520                               | 53.300                                 | 4.08%          | -3.01%           |
|                                    |             |                                     | 1905                     | 1.588                                 | 51.678                                   | 1.520                               | 53.300                                 | 4.47%          | -3.04%           |
|                                    |             |                                     | 1910                     | 1.593                                 | 51.659                                   | 1.520                               | 53.300                                 | 4.80%          | -3.08%           |

|                                                |                                                                                                                                                                                                                      |                                      |                                                                                                 |                                        |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: ZNFG900UM                              |  <b>PCTEST</b><br>Proud to be part of  element | <b>SAR EVALUATION REPORT</b>         |  <b>LG</b> | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004150063-01-R1.ZNF | <b>Test Dates:</b><br>04/27/20 – 06/25/20                                                                                                                                                                            | <b>DUT Type:</b><br>Portable Handset | Page 140 of 224                                                                                 |                                        |

**Table 10-4**  
**Measured Tissue Properties – Body Continued**

| 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                         | 2450 Body   | 21.9                                | 2300                     | 1.867                                 | 52.082                                   | 1.809                               | 52.900                                 | 3.21%          | -1.55%           |
|                                    |             |                                     | 2310                     | 1.879                                 | 52.053                                   | 1.816                               | 52.887                                 | 3.47%          | -1.58%           |
|                                    |             |                                     | 2320                     | 1.891                                 | 52.024                                   | 1.826                               | 52.873                                 | 3.56%          | -1.61%           |
| 05/11/2020                         | 2450 Body   | 23.0                                | 2400                     | 1.952                                 | 52.462                                   | 1.902                               | 52.767                                 | 2.63%          | -0.58%           |
|                                    |             |                                     | 2450                     | 2.012                                 | 52.315                                   | 1.950                               | 52.700                                 | 3.18%          | -0.73%           |
|                                    |             |                                     | 2480                     | 2.046                                 | 52.225                                   | 1.993                               | 52.662                                 | 2.66%          | -0.83%           |
|                                    |             |                                     | 2500                     | 2.069                                 | 52.161                                   | 2.021                               | 52.636                                 | 2.38%          | -0.90%           |
|                                    |             |                                     | 2510                     | 2.081                                 | 52.130                                   | 2.035                               | 52.623                                 | 2.26%          | -0.94%           |
|                                    |             |                                     | 2535                     | 2.112                                 | 52.051                                   | 2.071                               | 52.592                                 | 1.98%          | -1.03%           |
|                                    |             |                                     | 2550                     | 2.130                                 | 52.010                                   | 2.092                               | 52.573                                 | 1.82%          | -1.07%           |
|                                    |             |                                     | 2560                     | 2.142                                 | 51.986                                   | 2.106                               | 52.560                                 | 1.71%          | -1.09%           |
|                                    |             |                                     | 2600                     | 2.187                                 | 51.879                                   | 2.163                               | 52.509                                 | 1.11%          | -1.20%           |
|                                    |             |                                     | 2650                     | 2.247                                 | 51.712                                   | 2.234                               | 52.445                                 | 0.58%          | -1.40%           |
|                                    |             |                                     | 2680                     | 2.283                                 | 51.630                                   | 2.277                               | 52.407                                 | 0.26%          | -1.48%           |
|                                    |             |                                     | 2700                     | 2.306                                 | 51.575                                   | 2.305                               | 52.382                                 | 0.04%          | -1.54%           |
| 5/13/2020                          | 2450 Body   | 21.4                                | 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%           |
|                                    |             |                                     | 2500                     | 2.105                                 | 51.453                                   | 2.021                               | 52.636                                 | 4.16%          | -2.25%           |
| 5/18/2020                          | 2450 Body   | 23.2                                | 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%           |
|                                    |             |                                     | 2510                     | 2.082                                 | 52.465                                   | 2.035                               | 52.623                                 | 2.31%          | -0.30%           |
|                                    |             |                                     | 2535                     | 2.112                                 | 52.391                                   | 2.071                               | 52.592                                 | 1.98%          | -0.38%           |
|                                    |             |                                     | 2550                     | 2.130                                 | 52.357                                   | 2.092                               | 52.573                                 | 1.82%          | -0.41%           |
|                                    |             |                                     | 2560                     | 2.141                                 | 52.333                                   | 2.106                               | 52.560                                 | 1.66%          | -0.43%           |
|                                    |             |                                     | 2600                     | 2.189                                 | 52.221                                   | 2.163                               | 52.509                                 | 1.20%          | -0.55%           |
|                                    |             |                                     | 2650                     | 2.249                                 | 52.056                                   | 2.234                               | 52.445                                 | 0.67%          | -0.74%           |
|                                    |             |                                     | 2680                     | 2.287                                 | 51.976                                   | 2.277                               | 52.407                                 | 0.44%          | -0.82%           |
|                                    |             |                                     | 2700                     | 2.312                                 | 51.919                                   | 2.305                               | 52.382                                 | 0.30%          | -0.88%           |
| 05/27/2020                         | 2450 Body   | 21.8                                | 2400                     | 1.986                                 | 50.938                                   | 1.902                               | 52.767                                 | 4.42%          | -3.47%           |
|                                    |             |                                     | 2450                     | 2.045                                 | 50.783                                   | 1.950                               | 52.700                                 | 4.87%          | -3.64%           |
|                                    |             |                                     | 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%           |
|                                    |             |                                     | 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%           |
| 06/14/2020                         | 2450 Body   | 21.1                                | 2300                     | 1.853                                 | 51.414                                   | 1.809                               | 52.900                                 | 2.43%          | -2.81%           |
|                                    |             |                                     | 2310                     | 1.865                                 | 51.388                                   | 1.816                               | 52.887                                 | 2.70%          | -2.83%           |
|                                    |             |                                     | 2320                     | 1.876                                 | 51.366                                   | 1.826                               | 52.873                                 | 2.74%          | -2.85%           |
|                                    |             |                                     | 2400                     | 1.967                                 | 51.147                                   | 1.902                               | 52.767                                 | 3.42%          | -3.07%           |
|                                    |             |                                     | 2450                     | 2.025                                 | 51.009                                   | 1.950                               | 52.700                                 | 3.85%          | -3.21%           |
|                                    |             |                                     | 2480                     | 2.060                                 | 50.925                                   | 1.993                               | 52.662                                 | 3.36%          | -3.30%           |
|                                    |             |                                     | 2500                     | 2.084                                 | 50.865                                   | 2.021                               | 52.636                                 | 3.12%          | -3.36%           |
| 06/25/2020                         | 2450 Body   | 23.4                                | 2500                     | 2.096                                 | 51.209                                   | 2.021                               | 52.636                                 | 3.71%          | -2.71%           |
|                                    |             |                                     | 2510                     | 2.109                                 | 51.174                                   | 2.035                               | 52.623                                 | 3.64%          | -2.75%           |
|                                    |             |                                     | 2535                     | 2.139                                 | 51.101                                   | 2.071                               | 52.592                                 | 3.28%          | -2.84%           |
|                                    |             |                                     | 2550                     | 2.156                                 | 51.065                                   | 2.092                               | 52.573                                 | 3.06%          | -2.87%           |
|                                    |             |                                     | 2560                     | 2.167                                 | 51.038                                   | 2.106                               | 52.560                                 | 2.90%          | -2.90%           |
|                                    |             |                                     | 2600                     | 2.212                                 | 50.910                                   | 2.163                               | 52.509                                 | 2.27%          | -3.05%           |
|                                    |             |                                     | 2650                     | 2.273                                 | 50.743                                   | 2.234                               | 52.445                                 | 1.75%          | -3.25%           |
|                                    |             |                                     | 2680                     | 2.308                                 | 50.654                                   | 2.277                               | 52.407                                 | 1.36%          | -3.34%           |
|                                    |             |                                     | 2700                     | 2.330                                 | 50.596                                   | 2.305                               | 52.382                                 | 1.08%          | -3.41%           |

|                                                |                                                                                                                                  |                                      |  |                                                                                                 |                                        |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--|-------------------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: ZNFG900UM                              |  <b>PCTEST</b><br>Proud to be part of element | <b>SAR EVALUATION REPORT</b>         |  |  <b>LG</b> | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004150063-01-R1.ZNF | <b>Test Dates:</b><br>04/27/20 – 06/25/20                                                                                        | <b>DUT Type:</b><br>Portable Handset |  | Page 141 of 224                                                                                 |                                        |

**Table 10-5**  
**Measured Tissue Properties – Body Continued**

| 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 $\epsilon$ |
|------------------------------------|----------------|-------------------------------------|--------------------------|---------------------------------------|------------------------------------------|-------------------------------------|----------------------------------------|----------------|------------------|
| 04/27/2020                         | 5200-5800 Body | 22.9                                | 5180                     | 5.409                                 | 47.572                                   | 5.276                               | 49.041                                 | 2.52%          | -3.00%           |
|                                    |                |                                     | 5200                     | 5.432                                 | 47.523                                   | 5.299                               | 49.014                                 | 2.51%          | -3.04%           |
|                                    |                |                                     | 5220                     | 5.446                                 | 47.498                                   | 5.323                               | 48.987                                 | 2.31%          | -3.04%           |
|                                    |                |                                     | 5240                     | 5.484                                 | 47.464                                   | 5.346                               | 48.960                                 | 2.58%          | -3.06%           |
|                                    |                |                                     | 5260                     | 5.512                                 | 47.424                                   | 5.369                               | 48.933                                 | 2.66%          | -3.08%           |
|                                    |                |                                     | 5280                     | 5.545                                 | 47.425                                   | 5.393                               | 48.906                                 | 2.82%          | -3.03%           |
|                                    |                |                                     | 5300                     | 5.573                                 | 47.357                                   | 5.416                               | 48.879                                 | 2.90%          | -3.11%           |
|                                    |                |                                     | 5320                     | 5.585                                 | 47.327                                   | 5.439                               | 48.851                                 | 2.68%          | -3.12%           |
|                                    |                |                                     | 5500                     | 5.842                                 | 47.018                                   | 5.650                               | 48.607                                 | 3.40%          | -3.27%           |
|                                    |                |                                     | 5520                     | 5.864                                 | 47.011                                   | 5.673                               | 48.580                                 | 3.37%          | -3.23%           |
|                                    |                |                                     | 5540                     | 5.889                                 | 46.981                                   | 5.696                               | 48.553                                 | 3.39%          | -3.24%           |
|                                    |                |                                     | 5560                     | 5.907                                 | 46.958                                   | 5.720                               | 48.526                                 | 3.27%          | -3.23%           |
|                                    |                |                                     | 5580                     | 5.954                                 | 46.916                                   | 5.743                               | 48.499                                 | 3.67%          | -3.26%           |
|                                    |                |                                     | 5600                     | 5.978                                 | 46.859                                   | 5.766                               | 48.471                                 | 3.68%          | -3.33%           |
|                                    |                |                                     | 5620                     | 6.008                                 | 46.849                                   | 5.790                               | 48.444                                 | 3.77%          | -3.29%           |
|                                    |                |                                     | 5640                     | 6.034                                 | 46.800                                   | 5.813                               | 48.417                                 | 3.80%          | -3.34%           |
|                                    |                |                                     | 5660                     | 6.054                                 | 46.783                                   | 5.837                               | 48.390                                 | 3.72%          | -3.32%           |
|                                    |                |                                     | 5680                     | 6.091                                 | 46.749                                   | 5.860                               | 48.363                                 | 3.94%          | -3.34%           |
|                                    |                |                                     | 5700                     | 6.125                                 | 46.692                                   | 5.883                               | 48.336                                 | 4.11%          | -3.40%           |
|                                    |                |                                     | 5745                     | 6.180                                 | 46.625                                   | 5.936                               | 48.275                                 | 4.11%          | -3.42%           |
|                                    |                |                                     | 5765                     | 6.203                                 | 46.629                                   | 5.959                               | 48.248                                 | 4.09%          | -3.36%           |
|                                    |                |                                     | 5785                     | 6.244                                 | 46.576                                   | 5.982                               | 48.220                                 | 4.38%          | -3.41%           |
|                                    |                |                                     | 5800                     | 6.266                                 | 46.548                                   | 6.000                               | 48.200                                 | 4.43%          | -3.43%           |
|                                    |                |                                     | 5805                     | 6.274                                 | 46.545                                   | 6.006                               | 48.193                                 | 4.46%          | -3.42%           |
|                                    |                |                                     | 5825                     | 6.310                                 | 46.480                                   | 6.029                               | 48.166                                 | 4.66%          | -3.50%           |
| 05/04/2020                         | 5200-5800 Body | 22.9                                | 5180                     | 5.344                                 | 46.822                                   | 5.276                               | 49.041                                 | 1.29%          | -4.52%           |
|                                    |                |                                     | 5190                     | 5.358                                 | 46.800                                   | 5.288                               | 49.028                                 | 1.32%          | -4.54%           |
|                                    |                |                                     | 5200                     | 5.368                                 | 46.775                                   | 5.299                               | 49.014                                 | 1.30%          | -4.57%           |
|                                    |                |                                     | 5210                     | 5.375                                 | 46.768                                   | 5.311                               | 49.001                                 | 1.21%          | -4.56%           |
|                                    |                |                                     | 5220                     | 5.385                                 | 46.775                                   | 5.323                               | 48.987                                 | 1.16%          | -4.52%           |
|                                    |                |                                     | 5240                     | 5.414                                 | 46.765                                   | 5.346                               | 48.960                                 | 1.27%          | -4.48%           |
|                                    |                |                                     | 5250                     | 5.428                                 | 46.735                                   | 5.358                               | 48.947                                 | 1.31%          | -4.52%           |
|                                    |                |                                     | 5260                     | 5.440                                 | 46.718                                   | 5.369                               | 48.933                                 | 1.32%          | -4.53%           |
|                                    |                |                                     | 5270                     | 5.456                                 | 46.707                                   | 5.381                               | 48.919                                 | 1.39%          | -4.52%           |
|                                    |                |                                     | 5280                     | 5.476                                 | 46.686                                   | 5.393                               | 48.906                                 | 1.54%          | -4.54%           |
|                                    |                |                                     | 5290                     | 5.492                                 | 46.649                                   | 5.404                               | 48.892                                 | 1.63%          | -4.59%           |
|                                    |                |                                     | 5300                     | 5.505                                 | 46.612                                   | 5.416                               | 48.879                                 | 1.64%          | -4.64%           |
|                                    |                |                                     | 5310                     | 5.511                                 | 46.594                                   | 5.428                               | 48.865                                 | 1.53%          | -4.65%           |
|                                    |                |                                     | 5320                     | 5.517                                 | 46.590                                   | 5.439                               | 48.851                                 | 1.43%          | -4.63%           |
|                                    |                |                                     | 5500                     | 5.754                                 | 46.312                                   | 5.650                               | 48.607                                 | 1.84%          | -4.72%           |
|                                    |                |                                     | 5510                     | 5.766                                 | 46.281                                   | 5.661                               | 48.594                                 | 1.85%          | -4.76%           |
|                                    |                |                                     | 5520                     | 5.779                                 | 46.269                                   | 5.673                               | 48.580                                 | 1.87%          | -4.76%           |
|                                    |                |                                     | 5530                     | 5.794                                 | 46.258                                   | 5.685                               | 48.566                                 | 1.92%          | -4.75%           |
|                                    |                |                                     | 5540                     | 5.805                                 | 46.240                                   | 5.696                               | 48.553                                 | 1.91%          | -4.76%           |
|                                    |                |                                     | 5550                     | 5.812                                 | 46.223                                   | 5.708                               | 48.539                                 | 1.82%          | -4.77%           |
|                                    |                |                                     | 5560                     | 5.824                                 | 46.219                                   | 5.720                               | 48.526                                 | 1.82%          | -4.75%           |
|                                    |                |                                     | 5580                     | 5.868                                 | 46.210                                   | 5.743                               | 48.499                                 | 2.18%          | -4.72%           |
|                                    |                |                                     | 5600                     | 5.890                                 | 46.147                                   | 5.766                               | 48.471                                 | 2.15%          | -4.79%           |
|                                    |                |                                     | 5610                     | 5.901                                 | 46.132                                   | 5.778                               | 48.458                                 | 2.13%          | -4.80%           |
|                                    |                |                                     | 5620                     | 5.917                                 | 46.123                                   | 5.790                               | 48.444                                 | 2.19%          | -4.79%           |
|                                    |                |                                     | 5640                     | 5.944                                 | 46.072                                   | 5.813                               | 48.417                                 | 2.25%          | -4.84%           |
|                                    |                |                                     | 5660                     | 5.967                                 | 46.070                                   | 5.837                               | 48.390                                 | 2.23%          | -4.79%           |
|                                    |                |                                     | 5670                     | 5.986                                 | 46.062                                   | 5.848                               | 48.376                                 | 2.36%          | -4.78%           |
|                                    |                |                                     | 5680                     | 6.003                                 | 46.041                                   | 5.860                               | 48.363                                 | 2.44%          | -4.80%           |
|                                    |                |                                     | 5690                     | 6.017                                 | 46.019                                   | 5.872                               | 48.349                                 | 2.47%          | -4.82%           |
|                                    |                |                                     | 5700                     | 6.029                                 | 46.006                                   | 5.883                               | 48.336                                 | 2.48%          | -4.82%           |
|                                    |                |                                     | 5710                     | 6.042                                 | 45.996                                   | 5.895                               | 48.322                                 | 2.49%          | -4.81%           |
|                                    |                |                                     | 5720                     | 6.058                                 | 45.981                                   | 5.907                               | 48.309                                 | 2.56%          | -4.82%           |
|                                    |                |                                     | 5745                     | 6.086                                 | 45.899                                   | 5.936                               | 48.275                                 | 2.53%          | -4.92%           |
|                                    |                |                                     | 5750                     | 6.089                                 | 45.895                                   | 5.942                               | 48.268                                 | 2.47%          | -4.92%           |
|                                    |                |                                     | 5755                     | 6.094                                 | 45.893                                   | 5.947                               | 48.261                                 | 2.47%          | -4.91%           |
|                                    |                |                                     | 5765                     | 6.110                                 | 45.902                                   | 5.959                               | 48.248                                 | 2.53%          | -4.86%           |
|                                    |                |                                     | 5775                     | 6.130                                 | 45.903                                   | 5.971                               | 48.234                                 | 2.66%          | -4.83%           |
|                                    |                |                                     | 5785                     | 6.147                                 | 45.883                                   | 5.982                               | 48.220                                 | 2.76%          | -4.85%           |
|                                    |                |                                     | 5795                     | 6.161                                 | 45.861                                   | 5.994                               | 48.207                                 | 2.79%          | -4.87%           |
|                                    |                |                                     | 5800                     | 6.169                                 | 45.853                                   | 6.000                               | 48.200                                 | 2.82%          | -4.87%           |
|                                    |                |                                     | 5805                     | 6.178                                 | 45.850                                   | 6.006                               | 48.193                                 | 2.86%          | -4.86%           |
|                                    |                |                                     | 5825                     | 6.209                                 | 45.808                                   | 6.029                               | 48.166                                 | 2.99%          | -4.90%           |

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: ZNFG900UM      |  <b>PCTEST</b><br><small>Proud to be part of element</small> | <b>SAR EVALUATION REPORT</b> |  |  | <b>Approved by:</b>    |
| <b>Document S/N:</b>   | <b>Test Dates:</b>                                                                                                                              | <b>DUT Type:</b>             |  |                                                                                       | <b>Quality Manager</b> |
| 1M2004150063-01-R1.ZNF | 04/27/20 – 06/25/20                                                                                                                             | Portable Handset             |  |                                                                                       | Page 142 of 224        |

## 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.

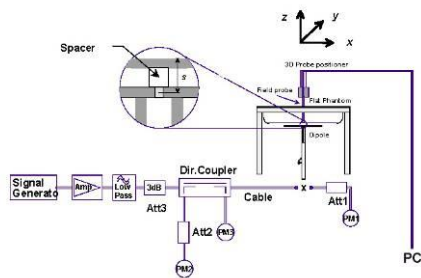
**Table 10-6**  
**System Verification Results – 1g**

| 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        | 05/17/2020 | 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%                      |
| E                                        | 750                    | HEAD        | 06/15/2020 | 22.5           | 21.5             | 0.200           | 1054      | 3589     | 1.770                             | 8.630                               | 8.850                                   | 2.55%                       |
| P                                        | 835                    | HEAD        | 05/20/2020 | 21.9           | 21.8             | 0.200           | 4d132     | 7551     | 1.930                             | 9.650                               | 9.650                                   | 0.00%                       |
| P                                        | 835                    | HEAD        | 05/28/2020 | 22.6           | 21.7             | 0.200           | 4d132     | 7551     | 1.930                             | 9.650                               | 9.650                                   | 0.00%                       |
| P                                        | 835                    | HEAD        | 06/01/2020 | 22.2           | 21.1             | 0.200           | 4d132     | 7551     | 1.840                             | 9.650                               | 9.200                                   | -4.66%                      |
| L                                        | 1750                   | HEAD        | 05/13/2020 | 23.9           | 20.5             | 0.100           | 1150      | 7410     | 3.610                             | 36.500                              | 36.100                                  | -1.10%                      |
| P                                        | 1750                   | HEAD        | 06/10/2020 | 23.5           | 21.7             | 0.100           | 1150      | 7551     | 3.780                             | 36.500                              | 37.800                                  | 3.56%                       |
| L                                        | 1900                   | HEAD        | 05/18/2020 | 22.7           | 21.9             | 0.100           | 5d148     | 7410     | 4.260                             | 39.100                              | 42.600                                  | 8.95%                       |
| P                                        | 1900                   | HEAD        | 06/12/2020 | 23.9           | 22.0             | 0.100           | 5d148     | 7551     | 4.190                             | 39.100                              | 41.900                                  | 7.16%                       |
| E                                        | 2300                   | HEAD        | 05/10/2020 | 23.2           | 22.8             | 0.100           | 1073      | 3589     | 4.810                             | 49.200                              | 48.100                                  | -2.24%                      |
| E                                        | 2450                   | HEAD        | 05/06/2020 | 22.9           | 21.2             | 0.100           | 719       | 3589     | 5.210                             | 53.100                              | 52.100                                  | -1.88%                      |
| E                                        | 2450                   | HEAD        | 05/10/2020 | 23.2           | 22.8             | 0.100           | 719       | 3589     | 5.330                             | 53.100                              | 53.300                                  | 0.38%                       |
| L                                        | 2450                   | HEAD        | 06/19/2020 | 24.9           | 22.5             | 0.100           | 981       | 7410     | 5.330                             | 52.300                              | 53.300                                  | 1.91%                       |
| E                                        | 2600                   | HEAD        | 05/06/2020 | 22.9           | 21.2             | 0.100           | 1064      | 3589     | 5.710                             | 58.100                              | 57.100                                  | -1.72%                      |
| E                                        | 2600                   | HEAD        | 06/10/2020 | 21.1           | 21.5             | 0.100           | 1064      | 3589     | 5.680                             | 58.100                              | 56.800                                  | -2.24%                      |
| H                                        | 5250                   | HEAD        | 05/07/2020 | 22.7           | 22.0             | 0.050           | 1057      | 7357     | 3.690                             | 79.200                              | 73.800                                  | -6.82%                      |
| H                                        | 5600                   | HEAD        | 05/07/2020 | 22.7           | 22.0             | 0.050           | 1057      | 7357     | 3.840                             | 84.100                              | 76.800                                  | -8.68%                      |
| H                                        | 5750                   | HEAD        | 05/07/2020 | 22.7           | 22.0             | 0.050           | 1057      | 7357     | 3.780                             | 80.500                              | 75.600                                  | -6.09%                      |
| L                                        | 750                    | BODY        | 04/29/2020 | 23.0           | 20.3             | 0.200           | 1161      | 7410     | 1.810                             | 8.430                               | 9.050                                   | 7.35%                       |
| E                                        | 750                    | BODY        | 06/22/2020 | 23.2           | 22.0             | 0.200           | 1003      | 3589     | 1.820                             | 8.610                               | 9.100                                   | 5.69%                       |
| D                                        | 835                    | BODY        | 05/26/2020 | 22.3           | 21.8             | 0.200           | 4d047     | 7488     | 1.890                             | 9.470                               | 9.450                                   | -0.21%                      |
| P                                        | 835                    | BODY        | 06/15/2020 | 23.1           | 21.7             | 0.200           | 4d132     | 7551     | 1.940                             | 9.960                               | 9.700                                   | -2.61%                      |
| 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        | 05/27/2020 | 21.9           | 21.6             | 0.100           | 1008      | 7527     | 3.920                             | 37.400                              | 39.200                                  | 4.81%                       |
| L                                        | 1750                   | BODY        | 06/15/2020 | 23.1           | 21.2             | 0.100           | 1150      | 7410     | 3.800                             | 36.600                              | 38.000                                  | 3.83%                       |
| I                                        | 1750                   | BODY        | 06/17/2020 | 20.5           | 21.1             | 0.100           | 1150      | 7570     | 3.790                             | 36.600                              | 37.900                                  | 3.55%                       |
| H                                        | 1900                   | BODY        | 06/10/2020 | 22.4           | 21.8             | 0.100           | 5d080     | 7357     | 4.180                             | 39.200                              | 41.800                                  | 6.63%                       |
| J                                        | 1900                   | BODY        | 06/15/2020 | 22.1           | 23.2             | 0.100           | 5d080     | 7571     | 4.260                             | 39.200                              | 42.600                                  | 8.67%                       |
| J                                        | 1900                   | BODY        | 06/18/2020 | 22.7           | 23.0             | 0.100           | 5d149     | 7571     | 4.300                             | 39.400                              | 43.000                                  | 9.14%                       |
| K                                        | 2300                   | BODY        | 05/06/2020 | 24.4           | 21.9             | 0.100           | 1073      | 7547     | 5.080                             | 47.700                              | 50.800                                  | 6.50%                       |
| K                                        | 2300                   | BODY        | 06/14/2020 | 21.1           | 23.1             | 0.100           | 1073      | 7547     | 5.050                             | 47.700                              | 50.500                                  | 5.87%                       |
| K                                        | 2450                   | BODY        | 05/11/2020 | 22.5           | 22.0             | 0.100           | 719       | 7547     | 5.150                             | 50.800                              | 51.500                                  | 1.38%                       |
| 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        | 06/14/2020 | 21.1           | 23.1             | 0.100           | 719       | 7547     | 5.130                             | 50.800                              | 51.300                                  | 0.98%                       |
| K                                        | 2600                   | BODY        | 05/11/2020 | 22.5           | 22.0             | 0.100           | 1064      | 7547     | 5.460                             | 55.600                              | 54.600                                  | -1.80%                      |
| K                                        | 2600                   | BODY        | 05/18/2020 | 22.2           | 22.0             | 0.100           | 1064      | 7547     | 5.500                             | 55.600                              | 55.000                                  | -1.08%                      |
| K                                        | 2600                   | BODY        | 06/25/2020 | 22.0           | 21.7             | 0.100           | 1064      | 7547     | 5.490                             | 55.600                              | 54.900                                  | -1.26%                      |
| G                                        | 5250                   | BODY        | 04/27/2020 | 23.0           | 22.9             | 0.050           | 1057      | 7409     | 3.800                             | 75.900                              | 76.000                                  | 0.13%                       |
| G                                        | 5600                   | BODY        | 04/27/2020 | 23.0           | 22.9             | 0.050           | 1057      | 7409     | 4.090                             | 79.900                              | 81.800                                  | 2.38%                       |
| G                                        | 5750                   | BODY        | 04/27/2020 | 23.0           | 22.9             | 0.050           | 1057      | 7409     | 3.820                             | 76.700                              | 76.400                                  | -0.39%                      |

|                                         |                                                                                                                                                                                                                      |                               |                                                                                                 |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  element | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                                   | DUT Type:<br>Portable Handset |                                                                                                 | Page 143 of 224                 |

**Table 10-7**  
**System Verification Results – Body 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> (%) |
| L                                        | 1750                   | BODY        | 06/15/2020 | 23.1           | 21.2             | 0.100           | 1150      | 7410     | 2.010                              | 19.400                               | 20.100                                   | 3.61%                        |
| I                                        | 1750                   | BODY        | 06/21/2020 | 21.8           | 21.7             | 0.100           | 1150      | 7570     | 2.000                              | 19.400                               | 20.000                                   | 3.09%                        |
| H                                        | 1900                   | BODY        | 06/10/2020 | 22.4           | 21.8             | 0.100           | 5d080     | 7357     | 2.170                              | 20.600                               | 21.700                                   | 5.34%                        |
| J                                        | 1900                   | BODY        | 06/15/2020 | 22.1           | 23.2             | 0.100           | 5d080     | 7571     | 2.200                              | 20.600                               | 22.000                                   | 6.80%                        |
| K                                        | 2450                   | BODY        | 05/27/2020 | 22.9           | 21.8             | 0.100           | 719       | 7547     | 2.410                              | 24.000                               | 24.100                                   | 0.42%                        |
| K                                        | 2600                   | BODY        | 05/27/2020 | 22.9           | 21.8             | 0.100           | 1064      | 7547     | 2.390                              | 25.000                               | 23.900                                   | -4.40%                       |
| G                                        | 5250                   | BODY        | 05/04/2020 | 21.3           | 22.9             | 0.050           | 1057      | 7409     | 1.120                              | 21.100                               | 22.400                                   | 6.16%                        |
| G                                        | 5600                   | BODY        | 05/04/2020 | 21.3           | 22.9             | 0.050           | 1057      | 7409     | 1.140                              | 22.300                               | 22.800                                   | 2.24%                        |
| G                                        | 5750                   | BODY        | 05/04/2020 | 21.3           | 22.9             | 0.050           | 1057      | 7409     | 1.020                              | 21.200                               | 20.400                                   | -3.77%                       |



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



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

|                                         |                                                                                                                                                                                                |                               |                                                                                       |                                 |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       | <br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                             | DUT Type:<br>Portable Handset |                                                                                       | Page 144 of 224                 |

# 11 SAR DATA SUMMARY

## 11.1 Standalone Head SAR Data

**Table 11-1**  
**Cell. CDMA Head SAR**

| MEASUREMENT RESULTS                                                                               |     |            |             |                             |                       |                  |                                                 |               |           |                      |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|-----|------------|-------------|-----------------------------|-----------------------|------------------|-------------------------------------------------|---------------|-----------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |     | Mode       | Service     | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Side                                            | Test Position | Ant State | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch. |            |             |                             |                       |                  |                                                 |               |           |                      |            | (W/kg)   |                | (W/kg)            |        |
| 836.52                                                                                            | 384 | Cell. CDMA | RC3 / SO55  | 25.5                        | 25.09                 | -0.06            | Right                                           | Cheek         | 8         | 05290                | 1:1        | 0.127    | 1.099          | 0.140             |        |
| 836.52                                                                                            | 384 | Cell. CDMA | RC3 / SO55  | 25.5                        | 25.09                 | 0.20             | Right                                           | Tilt          | 8         | 05290                | 1:1        | 0.070    | 1.099          | 0.077             |        |
| 836.52                                                                                            | 384 | Cell. CDMA | RC3 / SO55  | 25.5                        | 25.09                 | 0.13             | Left                                            | Cheek         | 8         | 05290                | 1:1        | 0.152    | 1.099          | 0.167             | A1     |
| 836.52                                                                                            | 384 | Cell. CDMA | RC3 / SO55  | 25.5                        | 25.09                 | 0.04             | Left                                            | Tilt          | 8         | 05290                | 1:1        | 0.072    | 1.099          | 0.079             |        |
| 836.52                                                                                            | 384 | Cell. CDMA | EVDO Rev. A | 25.5                        | 25.20                 | 0.18             | Right                                           | Cheek         | 8         | 05290                | 1:1        | 0.128    | 1.072          | 0.137             |        |
| 836.52                                                                                            | 384 | Cell. CDMA | EVDO Rev. A | 25.5                        | 25.20                 | 0.17             | Right                                           | Tilt          | 8         | 05290                | 1:1        | 0.066    | 1.072          | 0.071             |        |
| 836.52                                                                                            | 384 | Cell. CDMA | EVDO Rev. A | 25.5                        | 25.20                 | 0.13             | Left                                            | Cheek         | 8         | 05290                | 1:1        | 0.151    | 1.072          | 0.162             |        |
| 836.52                                                                                            | 384 | Cell. CDMA | EVDO Rev. A | 25.5                        | 25.20                 | -0.02            | Left                                            | Tilt          | 8         | 05290                | 1:1        | 0.077    | 1.072          | 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 11-2**  
**PCS CDMA 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                                                                                           | 600 | PCS CDMA | RC3 / SO55  | 25.5                        | 25.11                 | -0.12            | Right                                           | Cheek         | 05290                | 1:1        | 0.101    | 1.094          | 0.110             |        |
| 1880.00                                                                                           | 600 | PCS CDMA | RC3 / SO55  | 25.5                        | 25.11                 | 0.12             | Right                                           | Tilt          | 05290                | 1:1        | 0.046    | 1.094          | 0.050             |        |
| 1880.00                                                                                           | 600 | PCS CDMA | RC3 / SO55  | 25.5                        | 25.11                 | 0.15             | Left                                            | Cheek         | 05290                | 1:1        | 0.067    | 1.094          | 0.073             |        |
| 1880.00                                                                                           | 600 | PCS CDMA | RC3 / SO55  | 25.5                        | 25.11                 | 0.18             | Left                                            | Tilt          | 05290                | 1:1        | 0.063    | 1.094          | 0.069             |        |
| 1880.00                                                                                           | 600 | PCS CDMA | EVDO Rev. A | 25.5                        | 25.12                 | 0.20             | Right                                           | Cheek         | 05290                | 1:1        | 0.119    | 1.091          | 0.130             | A2     |
| 1880.00                                                                                           | 600 | PCS CDMA | EVDO Rev. A | 25.5                        | 25.12                 | 0.12             | Right                                           | Tilt          | 05290                | 1:1        | 0.055    | 1.091          | 0.060             |        |
| 1880.00                                                                                           | 600 | PCS CDMA | EVDO Rev. A | 25.5                        | 25.12                 | -0.12            | Left                                            | Cheek         | 05290                | 1:1        | 0.113    | 1.091          | 0.123             |        |
| 1880.00                                                                                           | 600 | PCS CDMA | EVDO Rev. A | 25.5                        | 25.12                 | -0.10            | Left                                            | Tilt          | 05290                | 1:1        | 0.071    | 1.091          | 0.077             |        |
| 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: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset |                                                                                       | Page 145 of 224                 |

**Table 11-3**  
**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 | # of Time Slots | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch. |         |         |                             |                       |                  |       |                                                 |                      |                 |            | (W/kg)   |                | (W/kg)            |        |
| 836.60                                                                                            | 190 | GSM 850 | GSM     | 33.5                        | 33.00                 | 0.08             | Right | Cheek                                           | 05290                | 1               | 1:8.3      | 0.069    | 1.122          | 0.077             |        |
| 836.60                                                                                            | 190 | GSM 850 | GSM     | 33.5                        | 33.00                 | -0.09            | Right | Tilt                                            | 05290                | 1               | 1:8.3      | 0.046    | 1.122          | 0.052             |        |
| 836.60                                                                                            | 190 | GSM 850 | GSM     | 33.5                        | 33.00                 | 0.15             | Left  | Cheek                                           | 05290                | 1               | 1:8.3      | 0.092    | 1.122          | 0.103             |        |
| 836.60                                                                                            | 190 | GSM 850 | GSM     | 33.5                        | 33.00                 | 0.07             | Left  | Tilt                                            | 05290                | 1               | 1:8.3      | 0.043    | 1.122          | 0.048             |        |
| 836.60                                                                                            | 190 | GSM 850 | GPRS    | 29.0                        | 28.43                 | 0.01             | Right | Cheek                                           | 05290                | 4               | 1:2.076    | 0.107    | 1.140          | 0.122             |        |
| 836.60                                                                                            | 190 | GSM 850 | GPRS    | 29.0                        | 28.43                 | -0.15            | Right | Tilt                                            | 05290                | 4               | 1:2.076    | 0.060    | 1.140          | 0.068             |        |
| 836.60                                                                                            | 190 | GSM 850 | GPRS    | 29.0                        | 28.43                 | -0.11            | Left  | Cheek                                           | 05290                | 4               | 1:2.076    | 0.110    | 1.140          | 0.125             | A3     |
| 836.60                                                                                            | 190 | GSM 850 | GPRS    | 29.0                        | 28.43                 | 0.05             | Left  | Tilt                                            | 05290                | 4               | 1:2.076    | 0.064    | 1.140          | 0.073             |        |
| 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 1900 Head SAR**

| MEASUREMENT RESULTS                                                                               |     |          |         |                             |                       |                  |                                                 |               |                      |                 |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|-----|----------|---------|-----------------------------|-----------------------|------------------|-------------------------------------------------|---------------|----------------------|-----------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |     | Mode     | Service | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Side                                            | Test Position | Device Serial Number | # of Time Slots | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch. |          |         |                             |                       |                  |                                                 |               |                      |                 |            | (W/kg)   |                | (W/kg)            |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GSM     | 30.5                        | 29.90                 | 0.13             | Right                                           | Cheek         | 05282                | 1               | 1:8.3      | 0.033    | 1.148          | 0.038             |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GSM     | 30.5                        | 29.90                 | 0.18             | Right                                           | Tilt          | 05282                | 1               | 1:8.3      | 0.011    | 1.148          | 0.013             |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GSM     | 30.5                        | 29.90                 | 0.12             | Left                                            | Cheek         | 05282                | 1               | 1:8.3      | 0.026    | 1.148          | 0.030             |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GSM     | 30.5                        | 29.90                 | 0.15             | Left                                            | Tilt          | 05282                | 1               | 1:8.3      | 0.022    | 1.148          | 0.025             |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GPRS    | 28.0                        | 27.70                 | 0.15             | Right                                           | Cheek         | 05282                | 3               | 1:2.76     | 0.052    | 1.072          | 0.056             | A4     |
| 1880.00                                                                                           | 661 | GSM 1900 | GPRS    | 28.0                        | 27.70                 | 0.12             | Right                                           | Tilt          | 05282                | 3               | 1:2.76     | 0.022    | 1.072          | 0.024             |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GPRS    | 28.0                        | 27.70                 | 0.13             | Left                                            | Cheek         | 05282                | 3               | 1:2.76     | 0.040    | 1.072          | 0.043             |        |
| 1880.00                                                                                           | 661 | GSM 1900 | GPRS    | 28.0                        | 27.70                 | 0.11             | Left                                            | Tilt          | 05282                | 3               | 1:2.76     | 0.030    | 1.072          | 0.032             |        |
| 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: ZNFG900UM                       |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                  | DUT Type:<br>Portable Handset |                                                                                       | Page 146 of 224                 |

**Table 11-5**  
**UMTS 850 Head SAR**

| MEASUREMENT RESULTS                                                                               |      |          |         |                             |                       |                  |       |                                                 |           |                      |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|------|----------|---------|-----------------------------|-----------------------|------------------|-------|-------------------------------------------------|-----------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |      | Mode     | Service | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Side  | Test Position                                   | Ant 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     | 25.5                        | 25.04                 | 0.11             | Right | Cheek                                           | 8         | 05290                | 1:1        | 0.121    | 1.112          | 0.135             |        |
| 836.60                                                                                            | 4183 | UMTS 850 | RMC     | 25.5                        | 25.04                 | 0.00             | Right | Tilt                                            | 8         | 05290                | 1:1        | 0.067    | 1.112          | 0.075             |        |
| 836.60                                                                                            | 4183 | UMTS 850 | RMC     | 25.5                        | 25.04                 | 0.02             | Left  | Cheek                                           | 8         | 05290                | 1:1        | 0.139    | 1.112          | 0.155             | A5     |
| 836.60                                                                                            | 4183 | UMTS 850 | RMC     | 25.5                        | 25.04                 | 0.13             | Left  | Tilt                                            | 8         | 05290                | 1:1        | 0.066    | 1.112          | 0.073             |        |
| 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 11-6**  
**UMTS 1750 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)            |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 25.5                        | 25.10                 | 0.11             | Right                                           | Cheek         | 05266                | 1:1        | 0.088    | 1.096          | 0.096             | A6     |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 25.5                        | 25.10                 | 0.12             | Right                                           | Tilt          | 05266                | 1:1        | 0.041    | 1.096          | 0.045             |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 25.5                        | 25.10                 | 0.10             | Left                                            | Cheek         | 05266                | 1:1        | 0.070    | 1.096          | 0.077             |        |
| 1732.40                                                                                           | 1412 | UMTS 1750 | RMC     | 25.5                        | 25.10                 | 0.11             | Left                                            | Tilt          | 05266                | 1:1        | 0.057    | 1.096          | 0.062             |        |
| 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 11-7**  
**UMTS 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                                                                                           | 9400 | UMTS 1900 | RMC     | 25.5                        | 25.09                 | 0.19             | Right                                           | Cheek         | 05282                | 1:1        | 0.102    | 1.099          | 0.112             | A7     |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 25.5                        | 25.09                 | 0.14             | Right                                           | Tilt          | 05282                | 1:1        | 0.044    | 1.099          | 0.048             |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 25.5                        | 25.09                 | -0.12            | Left                                            | Cheek         | 05282                | 1:1        | 0.087    | 1.099          | 0.096             |        |
| 1880.00                                                                                           | 9400 | UMTS 1900 | RMC     | 25.5                        | 25.09                 | 0.01             | Left                                            | Tilt          | 05282                | 1:1        | 0.060    | 1.099          | 0.066             |        |
| 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: ZNFG900UM                       | <br>Proud to be part of element | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                 | DUT Type:<br>Portable Handset |                                                                                       | Page 147 of 224                 |

**Table 11-8**  
**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 | Ant 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                          | 25.5                  | 25.40            | 0.06     | 0    | Right         | Cheek                                           | 27         | QPSK    | 1         | 50                   | 05266      | 1:1      | 0.114          | 1.023             | 0.117  |    |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 24.47            | 0.07     | 1    | Right         | Cheek                                           | 27         | QPSK    | 50        | 0                    | 05266      | 1:1      | 0.080          | 1.007             | 0.081  |    |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.5                  | 25.40            | 0.02     | 0    | Right         | Tilt                                            | 27         | QPSK    | 1         | 50                   | 05266      | 1:1      | 0.040          | 1.023             | 0.041  |    |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 24.47            | 0.12     | 1    | Right         | Tilt                                            | 27         | QPSK    | 50        | 0                    | 05266      | 1:1      | 0.029          | 1.007             | 0.029  |    |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.5                  | 25.40            | 0.04     | 0    | Left          | Cheek                                           | 27         | QPSK    | 1         | 50                   | 05266      | 1:1      | 0.121          | 1.023             | 0.124  | A8 |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 24.47            | 0.11     | 1    | Left          | Cheek                                           | 27         | QPSK    | 50        | 0                    | 05266      | 1:1      | 0.083          | 1.007             | 0.084  |    |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 25.5                  | 25.40            | 0.18     | 0    | Left          | Tilt                                            | 27         | QPSK    | 1         | 50                   | 05266      | 1:1      | 0.047          | 1.023             | 0.048  |    |
| 680.50                                                                                            | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 24.47            | 0.16     | 1    | Left          | Tilt                                            | 27         | QPSK    | 50        | 0                    | 05266      | 1:1      | 0.033          | 1.007             | 0.033  |    |
| 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 11-9**  
**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                                   | Ant 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              | 25.5                        | 25.31                 | 0.15             | 0        | Right | Cheek                                           | 20        | QPSK       | 1       | 49        | 05274                | 1:1        | 0.056    | 1.045          | 0.059             |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 24.5                        | 24.34                 | 0.11             | 1        | Right | Cheek                                           | 20        | QPSK       | 25      | 25        | 05274                | 1:1        | 0.045    | 1.038          | 0.047             |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 25.5                        | 25.31                 | 0.19             | 0        | Right | Tilt                                            | 20        | QPSK       | 1       | 49        | 05274                | 1:1        | 0.030    | 1.045          | 0.031             |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 24.5                        | 24.34                 | 0.16             | 1        | Right | Tilt                                            | 20        | QPSK       | 25      | 25        | 05274                | 1:1        | 0.022    | 1.038          | 0.023             |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 25.5                        | 25.31                 | 0.10             | 0        | Left  | Cheek                                           | 20        | QPSK       | 1       | 49        | 05274                | 1:1        | 0.131    | 1.045          | 0.137             | A9     |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 24.5                        | 24.34                 | 0.08             | 1        | Left  | Cheek                                           | 20        | QPSK       | 25      | 25        | 05274                | 1:1        | 0.108    | 1.038          | 0.112             |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 25.5                        | 25.31                 | 0.17             | 0        | Left  | Tilt                                            | 20        | QPSK       | 1       | 49        | 05274                | 1:1        | 0.020    | 1.045          | 0.021             |        |
| 707.50                                                                                            | 23095 | Mid | LTE Band 12 | 10              | 24.5                        | 24.34                 | 0.19             | 1        | Left  | Tilt                                            | 20        | QPSK       | 25      | 25        | 05274                | 1:1        | 0.016    | 1.038          | 0.017             |        |
| 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 13 Head SAR**

| MEASUREMENT RESULTS                                                                               |       |        |             |                 |                             |                       |                  |          |                                                 |               |           |            |         |           |                      |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|-------|--------|-------------|-----------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------------|---------------|-----------|------------|---------|-----------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |       |        | Mode        | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Side                                            | Test Position | Ant 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              | 25.5                        | 25.33                 | 0.13             | 0        | Right                                           | Cheek         | 10        | QPSK       | 1       | 25        | 05274                | 1:1        | 0.077    | 1.040          | 0.080             |        |
| 782.00                                                                                            | 23230 | Mid    | LTE Band 13 | 10              | 24.5                        | 24.33                 | 0.09             | 1        | Right                                           | Cheek         | 10        | QPSK       | 25      | 25        | 05274                | 1:1        | 0.072    | 1.040          | 0.075             |        |
| 782.00                                                                                            | 23230 | Mid    | LTE Band 13 | 10              | 25.5                        | 25.33                 | 0.13             | 0        | Right                                           | Tilt          | 10        | QPSK       | 1       | 25        | 05274                | 1:1        | 0.046    | 1.040          | 0.048             |        |
| 782.00                                                                                            | 23230 | Mid    | LTE Band 13 | 10              | 24.5                        | 24.33                 | 0.13             | 1        | Right                                           | Tilt          | 10        | QPSK       | 25      | 25        | 05274                | 1:1        | 0.040    | 1.040          | 0.042             |        |
| 782.00                                                                                            | 23230 | Mid    | LTE Band 13 | 10              | 25.5                        | 25.33                 | 0.15             | 0        | Left                                            | Cheek         | 10        | QPSK       | 1       | 25        | 05274                | 1:1        | 0.158    | 1.040          | 0.164             | A10    |
| 782.00                                                                                            | 23230 | Mid    | LTE Band 13 | 10              | 24.5                        | 24.33                 | 0.15             | 1        | Left                                            | Cheek         | 10        | QPSK       | 25      | 25        | 05274                | 1:1        | 0.115    | 1.040          | 0.120             |        |
| 782.00                                                                                            | 23230 | Mid    | LTE Band 13 | 10              | 25.5                        | 25.33                 | 0.17             | 0        | Left                                            | Tilt          | 10        | QPSK       | 1       | 25        | 05274                | 1:1        | 0.059    | 1.040          | 0.061             |        |
| 782.00                                                                                            | 23230 | Mid    | LTE Band 13 | 10              | 24.5                        | 24.33                 | 0.16             | 1        | Left                                            | Tilt          | 10        | QPSK       | 25      | 25        | 05274                | 1:1        | 0.055    | 1.040          | 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 |               |           |            |         |           |                      |            |          |                |                   |        |

|                                         |                                                                                                                                                                                                |                               |                                                                                       |                                 |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       | <br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                             | DUT Type:<br>Portable Handset |                                                                                       | Page 148 of 224                 |

**Table 11-11**  
**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                                   | Ant State | Modulation | RB Size | RB Offset | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
|                                                                                                   |       |     |             |                 |                             |                       |                  |          |       |                                                 |           |            |         |           |                      |            | (W/kg)   |                | (W/kg)            |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 25.5                        | 25.33                 | 0.17             | 0        | Right | Cheek                                           | 16        | QPSK       | 1       | 0         | 05266                | 1:1        | 0.091    | 1.040          | 0.095             |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 24.5                        | 24.26                 | 0.09             | 1        | Right | Cheek                                           | 16        | QPSK       | 25      | 12        | 05266                | 1:1        | 0.065    | 1.057          | 0.069             |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 25.5                        | 25.33                 | -0.16            | 0        | Right | Tilt                                            | 16        | QPSK       | 1       | 0         | 05266                | 1:1        | 0.049    | 1.040          | 0.051             |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 24.5                        | 24.26                 | -0.15            | 1        | Right | Tilt                                            | 16        | QPSK       | 25      | 12        | 05266                | 1:1        | 0.035    | 1.057          | 0.037             |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 25.5                        | 25.33                 | 0.13             | 0        | Left  | Cheek                                           | 16        | QPSK       | 1       | 0         | 05266                | 1:1        | 0.123    | 1.040          | 0.128             | A11    |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 24.5                        | 24.26                 | 0.00             | 1        | Left  | Cheek                                           | 16        | QPSK       | 25      | 12        | 05266                | 1:1        | 0.098    | 1.057          | 0.104             |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 25.5                        | 25.33                 | 0.04             | 0        | Left  | Tilt                                            | 16        | QPSK       | 1       | 0         | 05266                | 1:1        | 0.041    | 1.040          | 0.043             |        |
| 793.00                                                                                            | 23330 | Mid | LTE Band 14 | 10              | 24.5                        | 24.26                 | 0.16             | 1        | Left  | Tilt                                            | 16        | QPSK       | 25      | 12        | 05266                | 1:1        | 0.036    | 1.057          | 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 |           |            |         |           |                      |            |          |                |                   |        |

**Table 11-12**  
**LTE Band 5 (Cell) Head 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] | Side | Test Position | Ant 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)            |        |     |
|                                                       |                   |           |       |      |                   |                             |                       |                  |          |      |               |                                                 |            |         |           |                      |            |          |                |                   |        |     |
| 1 CC Uplink                                           | N/A               | 836.50    | 20525 | Mid  | LTE Band 5 (Cell) | 10                          | 25.5                  | 24.97            | 0.12     | 0    | Right         | Cheek                                           | 8          | QPSK    | 1         | 49                   | 05290      | 1:1      | 0.119          | 1.130             | 0.134  |     |
| 1 CC Uplink                                           | N/A               | 836.50    | 20525 | Mid  | LTE Band 5 (Cell) | 10                          | 24.5                  | 23.98            | 0.00     | 1    | Right         | Cheek                                           | 8          | QPSK    | 25        | 25                   | 05290      | 1:1      | 0.103          | 1.127             | 0.116  |     |
| 1 CC Uplink                                           | N/A               | 836.50    | 20525 | Mid  | LTE Band 5 (Cell) | 10                          | 25.5                  | 24.97            | -0.01    | 0    | Right         | Tilt                                            | 8          | QPSK    | 1         | 49                   | 05290      | 1:1      | 0.070          | 1.130             | 0.079  |     |
| 1 CC Uplink                                           | N/A               | 836.50    | 20525 | Mid  | LTE Band 5 (Cell) | 10                          | 24.5                  | 23.98            | 0.13     | 1    | Right         | Tilt                                            | 8          | QPSK    | 25        | 25                   | 05290      | 1:1      | 0.055          | 1.127             | 0.062  |     |
| 1 CC Uplink                                           | N/A               | 836.50    | 20525 | Mid  | LTE Band 5 (Cell) | 10                          | 25.5                  | 24.97            | -0.14    | 0    | Left          | Cheek                                           | 8          | QPSK    | 1         | 49                   | 05290      | 1:1      | 0.153          | 1.130             | 0.173  |     |
| 1 CC Uplink                                           | N/A               | 836.50    | 20525 | Mid  | LTE Band 5 (Cell) | 10                          | 24.5                  | 23.98            | 0.11     | 1    | Left          | Cheek                                           | 8          | QPSK    | 25        | 25                   | 05290      | 1:1      | 0.125          | 1.127             | 0.141  |     |
| 2 CC Uplink                                           | PCC               | 836.50    | 20525 | Mid  | LTE Band 5 (Cell) | 10                          | 25.5                  | 25.14            | 0.03     | 0    | Left          | Cheek                                           | 8          | QPSK    | 1         | 49                   | 05290      | 1:1      | 0.166          | 1.086             | 0.180  | A12 |
|                                                       | SCC               | 843.70    | 20597 |      | LTE Band 5 (Cell) | 5                           |                       |                  |          |      |               |                                                 |            |         | 1         | 0                    |            |          |                |                   |        |     |
| 1 CC Uplink                                           | N/A               | 836.50    | 20525 | Mid  | LTE Band 5 (Cell) | 10                          | 25.5                  | 24.97            | -0.06    | 0    | Left          | Tilt                                            | 8          | QPSK    | 1         | 49                   | 05290      | 1:1      | 0.067          | 1.130             | 0.076  |     |
| 1 CC Uplink                                           | N/A               | 836.50    | 20525 | Mid  | LTE Band 5 (Cell) | 10                          | 24.5                  | 23.98            | 0.07     | 1    | Left          | Tilt                                            | 8          | QPSK    | 25        | 25                   | 05290      | 1:1      | 0.055          | 1.127             | 0.062  |     |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT<br>Spatial Peak |                   |           |       |      |                   |                             |                       |                  |          |      |               | Head<br>1.6 W/kg (mW/g)<br>averaged over 1 gram |            |         |           |                      |            |          |                |                   |        |     |
| Uncontrolled Exposure/General Population              |                   |           |       |      |                   |                             |                       |                  |          |      |               |                                                 |            |         |           |                      |            |          |                |                   |        |     |

|                                         |                                                                                                                                                 |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset | Page 149 of 224                                                                       |                                 |

**Table 11-13**  
**LTE Band 66 (AWS) Head SAR**

| MEASUREMENT RESULTS                                                                               |        |      |                   |                             |                       |                  |          |      |                                                 |       |            |         |           |                      |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|--------|------|-------------------|-----------------------------|-----------------------|------------------|----------|------|-------------------------------------------------|-------|------------|---------|-----------|----------------------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |        | Mode | Bandwidth [MHz]   | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Side | Test Position                                   | Ant   | Modulation | RB Size | RB Offset | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |
| MHz                                                                                               | Ch.    |      |                   |                             |                       |                  |          |      |                                                 |       |            |         |           |                      |            | (W/kg)   |                | (W/kg)            |        |     |
| 1770.00                                                                                           | 132572 | High | LTE Band 66 (AWS) | 20                          | 25.5                  | 25.36            | 0.13     | 0    | Right                                           | Cheek | Ant 2      | QPSK    | 1         | 0                    | 05266      | 1:1      | 0.126          | 1.033             | 0.130  | A13 |
| 1770.00                                                                                           | 132572 | High | LTE Band 66 (AWS) | 20                          | 24.5                  | 24.40            | 0.15     | 1    | Right                                           | Cheek | Ant 2      | QPSK    | 50        | 0                    | 05266      | 1:1      | 0.096          | 1.023             | 0.098  |     |
| 1770.00                                                                                           | 132572 | High | LTE Band 66 (AWS) | 20                          | 25.5                  | 25.36            | 0.17     | 0    | Right                                           | Tilt  | Ant 2      | QPSK    | 1         | 0                    | 05266      | 1:1      | 0.050          | 1.033             | 0.052  |     |
| 1770.00                                                                                           | 132572 | High | LTE Band 66 (AWS) | 20                          | 24.5                  | 24.40            | 0.14     | 1    | Right                                           | Tilt  | Ant 2      | QPSK    | 50        | 0                    | 05266      | 1:1      | 0.036          | 1.023             | 0.037  |     |
| 1770.00                                                                                           | 132572 | High | LTE Band 66 (AWS) | 20                          | 25.5                  | 25.36            | -0.02    | 0    | Left                                            | Cheek | Ant 2      | QPSK    | 1         | 0                    | 05266      | 1:1      | 0.075          | 1.033             | 0.077  |     |
| 1770.00                                                                                           | 132572 | High | LTE Band 66 (AWS) | 20                          | 24.5                  | 24.40            | 0.16     | 1    | Left                                            | Cheek | Ant 2      | QPSK    | 50        | 0                    | 05266      | 1:1      | 0.065          | 1.023             | 0.066  |     |
| 1770.00                                                                                           | 132572 | High | LTE Band 66 (AWS) | 20                          | 25.5                  | 25.36            | 0.13     | 0    | Left                                            | Tilt  | Ant 2      | QPSK    | 1         | 0                    | 05266      | 1:1      | 0.083          | 1.033             | 0.086  |     |
| 1770.00                                                                                           | 132572 | High | LTE Band 66 (AWS) | 20                          | 24.5                  | 24.40            | 0.13     | 1    | Left                                            | Tilt  | Ant 2      | QPSK    | 50        | 0                    | 05266      | 1:1      | 0.063          | 1.023             | 0.064  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 17.7                  | 17.16            | 0.13     | 0    | Right                                           | Cheek | Ant 3      | QPSK    | 1         | 0                    | 05274      | 1:1      | 0.021          | 1.132             | 0.024  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 17.7                  | 17.27            | 0.16     | 0    | Right                                           | Cheek | Ant 3      | QPSK    | 50        | 25                   | 05274      | 1:1      | 0.024          | 1.104             | 0.026  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 17.7                  | 17.16            | -0.19    | 0    | Right                                           | Tilt  | Ant 3      | QPSK    | 1         | 0                    | 05274      | 1:1      | 0.005          | 1.132             | 0.006  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 17.7                  | 17.27            | 0.04     | 0    | Right                                           | Tilt  | Ant 3      | QPSK    | 50        | 25                   | 05274      | 1:1      | 0.007          | 1.104             | 0.008  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 17.7                  | 17.16            | 0.15     | 0    | Left                                            | Cheek | Ant 3      | QPSK    | 1         | 0                    | 05274      | 1:1      | 0.010          | 1.132             | 0.011  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 17.7                  | 17.27            | 0.13     | 0    | Left                                            | Cheek | Ant 3      | QPSK    | 50        | 25                   | 05274      | 1:1      | 0.013          | 1.104             | 0.014  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 17.7                  | 17.16            | 0.13     | 0    | Left                                            | Tilt  | Ant 3      | QPSK    | 1         | 0                    | 05274      | 1:1      | 0.006          | 1.132             | 0.007  |     |
| 1720.00                                                                                           | 132072 | Low  | LTE Band 66 (AWS) | 20                          | 17.7                  | 17.27            | 0.03     | 0    | Left                                            | Tilt  | Ant 3      | QPSK    | 50        | 25                   | 05274      | 1:1      | 0.008          | 1.104             | 0.009  |     |
| 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 2 (PCS) Head SAR**

| MEASUREMENT RESULTS                                                                               |       |     |                  |                 |                             |                       |                  |          |       |                                                 |       |            |         |           |                      |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|-------|-----|------------------|-----------------|-----------------------------|-----------------------|------------------|----------|-------|-------------------------------------------------|-------|------------|---------|-----------|----------------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |       |     | Mode             | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Side  | Test Position                                   | Ant   | Modulation | RB Size | RB Offset | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
|                                                                                                   |       |     |                  |                 |                             |                       |                  |          |       |                                                 |       |            |         |           |                      |            | (W/kg)   |                | (W/kg)            |        |
| 1860.00                                                                                           | 18700 | Low | LTE Band 2 (PCS) | 20              | 17.7                        | 17.47                 | 0.12             | 0        | Right | Cheek                                           | Ant 3 | QPSK       | 1       | 0         | 05274                | 1:1        | 0.039    | 1.054          | 0.041             |        |
| 1860.00                                                                                           | 18700 | Low | LTE Band 2 (PCS) | 20              | 17.7                        | 17.53                 | 0.08             | 0        | Right | Cheek                                           | Ant 3 | QPSK       | 50      | 25        | 05274                | 1:1        | 0.042    | 1.040          | 0.044             | A14    |
| 1860.00                                                                                           | 18700 | Low | LTE Band 2 (PCS) | 20              | 17.7                        | 17.47                 | 0.20             | 0        | Right | Tilt                                            | Ant 3 | QPSK       | 1       | 0         | 05274                | 1:1        | 0.008    | 1.054          | 0.008             |        |
| 1860.00                                                                                           | 18700 | Low | LTE Band 2 (PCS) | 20              | 17.7                        | 17.53                 | 0.14             | 0        | Right | Tilt                                            | Ant 3 | QPSK       | 50      | 25        | 05274                | 1:1        | 0.008    | 1.040          | 0.008             |        |
| 1860.00                                                                                           | 18700 | Low | LTE Band 2 (PCS) | 20              | 17.7                        | 17.47                 | -0.14            | 0        | Left  | Cheek                                           | Ant 3 | QPSK       | 1       | 0         | 05274                | 1:1        | 0.022    | 1.054          | 0.023             |        |
| 1860.00                                                                                           | 18700 | Low | LTE Band 2 (PCS) | 20              | 17.7                        | 17.53                 | 0.09             | 0        | Left  | Cheek                                           | Ant 3 | QPSK       | 50      | 25        | 05274                | 1:1        | 0.022    | 1.040          | 0.023             |        |
| 1860.00                                                                                           | 18700 | Low | LTE Band 2 (PCS) | 20              | 17.7                        | 17.47                 | 0.21             | 0        | Left  | Tilt                                            | Ant 3 | QPSK       | 1       | 0         | 05274                | 1:1        | 0.013    | 1.054          | 0.014             |        |
| 1860.00                                                                                           | 18700 | Low | LTE Band 2 (PCS) | 20              | 17.7                        | 17.53                 | 0.13             | 0        | Left  | Tilt                                            | Ant 3 | QPSK       | 50      | 25        | 05274                | 1:1        | 0.013    | 1.040          | 0.014             |        |
| 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: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 150 of 224                                                                       |                                 |

**Table 11-15**  
**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 | Modulation           | RB Size | RB Offset | Device Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |
| MHz                                      | Ch.   |      |                   |                             |                       |                  |          |      |               |                      |         |           |                      |            | (W/kg)   |                | (W/kg)            |        |     |
| 1882.50                                  | 26365 | Mid  | LTE Band 25 (PCS) | 20                          | 25.5                  | 24.91            | 0.12     | 0    | Right         | Cheek                | QPSK    | 1         | 99                   | 05282      | 1:1      | 0.123          | 1.146             | 0.141  | A15 |
| 1882.50                                  | 26365 | Mid  | LTE Band 25 (PCS) | 20                          | 24.5                  | 23.99            | 0.14     | 1    | Right         | Cheek                | QPSK    | 50        | 50                   | 05282      | 1:1      | 0.085          | 1.125             | 0.096  |     |
| 1882.50                                  | 26365 | Mid  | LTE Band 25 (PCS) | 20                          | 25.5                  | 24.91            | 0.08     | 0    | Right         | Tilt                 | QPSK    | 1         | 99                   | 05282      | 1:1      | 0.043          | 1.146             | 0.049  |     |
| 1882.50                                  | 26365 | Mid  | LTE Band 25 (PCS) | 20                          | 24.5                  | 23.99            | 0.21     | 1    | Right         | Tilt                 | QPSK    | 50        | 50                   | 05282      | 1:1      | 0.035          | 1.125             | 0.039  |     |
| 1882.50                                  | 26365 | Mid  | LTE Band 25 (PCS) | 20                          | 25.5                  | 24.91            | 0.13     | 0    | Left          | Cheek                | QPSK    | 1         | 99                   | 05282      | 1:1      | 0.088          | 1.146             | 0.101  |     |
| 1882.50                                  | 26365 | Mid  | LTE Band 25 (PCS) | 20                          | 24.5                  | 23.99            | 0.09     | 1    | Left          | Cheek                | QPSK    | 50        | 50                   | 05282      | 1:1      | 0.071          | 1.125             | 0.080  |     |
| 1882.50                                  | 26365 | Mid  | LTE Band 25 (PCS) | 20                          | 25.5                  | 24.91            | 0.09     | 0    | Left          | Tilt                 | QPSK    | 1         | 99                   | 05282      | 1:1      | 0.075          | 1.146             | 0.086  |     |
| 1882.50                                  | 26365 | Mid  | LTE Band 25 (PCS) | 20                          | 24.5                  | 23.99            | 0.07     | 1    | Left          | Tilt                 | QPSK    | 50        | 50                   | 05282      | 1:1      | 0.062          | 1.125             | 0.070  |     |
| 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 11-16**  
**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                          | 23.0                  | 22.42            | 0.00     | 0    | Right                                           | Cheek      | QPSK    | 1         | 0                    | 05258      | 1:1      | 0.067          | 1.143             | 0.077  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 22.0                  | 21.56            | -0.01    | 1    | Right                                           | Cheek      | QPSK    | 25        | 12                   | 05258      | 1:1      | 0.061          | 1.107             | 0.068  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 23.0                  | 22.42            | 0.15     | 0    | Right                                           | Tilt       | QPSK    | 1         | 0                    | 05258      | 1:1      | 0.025          | 1.143             | 0.029  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 22.0                  | 21.56            | 0.02     | 1    | Right                                           | Tilt       | QPSK    | 25        | 12                   | 05258      | 1:1      | 0.019          | 1.107             | 0.021  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 23.0                  | 22.42            | 0.09     | 0    | Left                                            | Cheek      | QPSK    | 1         | 0                    | 05258      | 1:1      | 0.089          | 1.143             | 0.102  | A16 |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 22.0                  | 21.56            | 0.13     | 1    | Left                                            | Cheek      | QPSK    | 25        | 12                   | 05258      | 1:1      | 0.053          | 1.107             | 0.059  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 23.0                  | 22.42            | -0.07    | 0    | Left                                            | Tilt       | QPSK    | 1         | 0                    | 05258      | 1:1      | 0.046          | 1.143             | 0.053  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 22.0                  | 21.56            | 0.16     | 1    | Left                                            | Tilt       | QPSK    | 25        | 12                   | 05258      | 1:1      | 0.027          | 1.107             | 0.030  |     |
| 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 11-17**  
**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)            |        |     |
| 2560.00                                                                                           | 21350 | High | LTE Band 7      | 20                          | 25.5                  | 24.74            | 0.12     | 0    | Right         | Cheek                                           | QPSK    | 1         | 99                   | 05282      | 1:1      | 0.116          | 1.191             | 0.138  |     |
| 2560.00                                                                                           | 21350 | High | LTE Band 7      | 20                          | 24.5                  | 23.83            | 0.13     | 1    | Right         | Cheek                                           | QPSK    | 50        | 25                   | 05282      | 1:1      | 0.090          | 1.167             | 0.105  |     |
| 2560.00                                                                                           | 21350 | High | LTE Band 7      | 20                          | 25.5                  | 24.74            | 0.14     | 0    | Right         | Tilt                                            | QPSK    | 1         | 99                   | 05282      | 1:1      | 0.056          | 1.191             | 0.067  |     |
| 2560.00                                                                                           | 21350 | High | LTE Band 7      | 20                          | 24.5                  | 23.83            | -0.02    | 1    | Right         | Tilt                                            | QPSK    | 50        | 25                   | 05282      | 1:1      | 0.044          | 1.167             | 0.051  |     |
| 2560.00                                                                                           | 21350 | High | LTE Band 7      | 20                          | 25.5                  | 24.74            | 0.21     | 0    | Left          | Cheek                                           | QPSK    | 1         | 99                   | 05282      | 1:1      | 0.148          | 1.191             | 0.176  | A17 |
| 2560.00                                                                                           | 21350 | High | LTE Band 7      | 20                          | 24.5                  | 23.83            | 0.13     | 1    | Left          | Cheek                                           | QPSK    | 50        | 25                   | 05282      | 1:1      | 0.102          | 1.167             | 0.119  |     |
| 2560.00                                                                                           | 21350 | High | LTE Band 7      | 20                          | 25.5                  | 24.74            | 0.13     | 0    | Left          | Tilt                                            | QPSK    | 1         | 99                   | 05282      | 1:1      | 0.051          | 1.191             | 0.061  |     |
| 2560.00                                                                                           | 21350 | High | LTE Band 7      | 20                          | 24.5                  | 23.83            | 0.19     | 1    | Left          | Tilt                                            | QPSK    | 50        | 25                   | 05282      | 1:1      | 0.034          | 1.167             | 0.040  |     |
| 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: ZNFG900UM                       |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                  | DUT Type:<br>Portable Handset |                                                                                       | Page 151 of 224                 |

**Table 11-18**  
**LTE Band 41 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)   |                |                   |        |
| 2680.00                                                                                           | 41490 | High   | LTE Band 41 | 20              | 25.5                        | 25.24                 | 0.14             | 0        | Right | Cheek                                           | QPSK       | 1       | 50        | 05282                | 1:1.58     | 0.061    | 1.062          | 0.065             |        |
| 2680.00                                                                                           | 41490 | High   | LTE Band 41 | 20              | 24.5                        | 24.31                 | 0.14             | 1        | Right | Cheek                                           | QPSK       | 50      | 25        | 05282                | 1:1.58     | 0.045    | 1.045          | 0.047             |        |
| 2680.00                                                                                           | 41490 | High   | LTE Band 41 | 20              | 25.5                        | 25.24                 | 0.15             | 0        | Right | Tilt                                            | QPSK       | 1       | 50        | 05282                | 1:1.58     | 0.039    | 1.062          | 0.041             |        |
| 2680.00                                                                                           | 41490 | High   | LTE Band 41 | 20              | 24.5                        | 24.31                 | 0.12             | 1        | Right | Tilt                                            | QPSK       | 50      | 25        | 05282                | 1:1.58     | 0.033    | 1.045          | 0.034             |        |
| 2680.00                                                                                           | 41490 | High   | LTE Band 41 | 20              | 25.5                        | 25.24                 | 0.20             | 0        | Left  | Cheek                                           | QPSK       | 1       | 50        | 05282                | 1:1.58     | 0.069    | 1.062          | 0.073             | A18    |
| 2680.00                                                                                           | 41490 | High   | LTE Band 41 | 20              | 24.5                        | 24.31                 | 0.16             | 1        | Left  | Cheek                                           | QPSK       | 50      | 25        | 05282                | 1:1.58     | 0.054    | 1.045          | 0.056             |        |
| 2680.00                                                                                           | 41490 | High   | LTE Band 41 | 20              | 25.5                        | 25.24                 | 0.15             | 0        | Left  | Tilt                                            | QPSK       | 1       | 50        | 05282                | 1:1.58     | 0.027    | 1.062          | 0.029             |        |
| 2680.00                                                                                           | 41490 | High   | LTE Band 41 | 20              | 24.5                        | 24.31                 | 0.16             | 1        | Left  | Tilt                                            | QPSK       | 50      | 25        | 05282                | 1:1.58     | 0.022    | 1.045          | 0.023             |        |
| 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**  
**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 | Waveform                                        | Modulation | RB Size | RB Offset | 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                          | 24.8                  | 24.04            | 0.18     | 0    | Right         | Cheek                                           | DFT-S-OFDM | QPSK    | 1         | 1             | 05191      | 1:1      | 0.005          | 1.191             | 0.006  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 24.8                  | 24.06            | 0.15     | 0    | Right         | Cheek                                           | DFT-S-OFDM | QPSK    | 50        | 28            | 05191      | 1:1      | 0.006          | 1.186             | 0.007  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 24.8                  | 24.04            | 0.17     | 0    | Right         | Tilt                                            | DFT-S-OFDM | QPSK    | 1         | 1             | 05191      | 1:1      | 0.003          | 1.191             | 0.004  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 24.8                  | 24.06            | 0.13     | 0    | Right         | Tilt                                            | DFT-S-OFDM | QPSK    | 50        | 28            | 05191      | 1:1      | 0.003          | 1.186             | 0.004  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 24.8                  | 24.04            | 0.15     | 0    | Left          | Cheek                                           | DFT-S-OFDM | QPSK    | 1         | 1             | 05191      | 1:1      | 0.004          | 1.191             | 0.005  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 24.8                  | 24.06            | 0.17     | 0    | Left          | Cheek                                           | DFT-S-OFDM | QPSK    | 50        | 28            | 05191      | 1:1      | 0.006          | 1.186             | 0.007  | A19 |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 23.3                  | 22.13            | 0.18     | 1.5  | Left          | Cheek                                           | CP-OFDM    | QPSK    | 1         | 1             | 05191      | 1:1      | 0.003          | 1.309             | 0.004  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 24.8                  | 24.04            | 0.18     | 0    | Left          | Tilt                                            | DFT-S-OFDM | QPSK    | 1         | 1             | 05191      | 1:1      | 0.002          | 1.191             | 0.002  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 24.8                  | 24.06            | 0.17     | 0    | Left          | Tilt                                            | DFT-S-OFDM | QPSK    | 50        | 28            | 05191      | 1:1      | 0.002          | 1.186             | 0.002  |     |
| 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: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  |  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |  |  | Page 152 of 224                                                                       |                                 |

**Table 11-20**  
**NR Band n5 (Cell) Head SAR**

| MEASUREMENT RESULTS                      |        |      |                   |                             |                       |                  |          |      |               |                      |          |            |         |           |               |            |          |                |                   |        |     |
|------------------------------------------|--------|------|-------------------|-----------------------------|-----------------------|------------------|----------|------|---------------|----------------------|----------|------------|---------|-----------|---------------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                |        | Mode | Bandwidth [MHz]   | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Side | Test Position | Ant State            | Waveform | Modulation | RB Size | RB Offset | 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                          | 24.8                  | 24.11            | 0.04     | 0    | Right         | Cheek                | 8        | DFT-S-OFDM | QPSK    | 1         | 1             | 05209      | 1:1      | 0.094          | 1.172             | 0.110  |     |
| 836.50                                   | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 24.8                  | 23.83            | 0.01     | 0    | Right         | Cheek                | 8        | DFT-S-OFDM | QPSK    | 50        | 28            | 05209      | 1:1      | 0.089          | 1.250             | 0.111  |     |
| 836.50                                   | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 24.8                  | 24.11            | -0.02    | 0    | Right         | Tilt                 | 8        | DFT-S-OFDM | QPSK    | 1         | 1             | 05209      | 1:1      | 0.055          | 1.172             | 0.064  |     |
| 836.50                                   | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 24.8                  | 23.83            | 0.13     | 0    | Right         | Tilt                 | 8        | DFT-S-OFDM | QPSK    | 50        | 28            | 05209      | 1:1      | 0.048          | 1.250             | 0.060  |     |
| 836.50                                   | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 24.8                  | 24.11            | -0.01    | 0    | Left          | Cheek                | 8        | DFT-S-OFDM | QPSK    | 1         | 1             | 05209      | 1:1      | 0.112          | 1.172             | 0.131  | A20 |
| 836.50                                   | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 24.8                  | 23.83            | 0.10     | 0    | Left          | Cheek                | 8        | DFT-S-OFDM | QPSK    | 50        | 28            | 05209      | 1:1      | 0.106          | 1.250             | 0.133  |     |
| 836.50                                   | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 23.3                  | 21.93            | 0.13     | 1.5  | Left          | Cheek                | 8        | CP-OFDM    | QPSK    | 1         | 1             | 05209      | 1:1      | 0.079          | 1.371             | 0.108  |     |
| 836.50                                   | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 24.8                  | 24.11            | 0.05     | 0    | Left          | Tilt                 | 8        | DFT-S-OFDM | QPSK    | 1         | 1             | 05209      | 1:1      | 0.053          | 1.172             | 0.062  |     |
| 836.50                                   | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 24.8                  | 23.83            | 0.13     | 0    | Left          | Tilt                 | 8        | DFT-S-OFDM | QPSK    | 50        | 28            | 05209      | 1:1      | 0.046          | 1.250             | 0.058  |     |
| 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 11-21**  
**NR Band n66 (AWS) Head SAR**

| MEASUREMENT RESULTS                      |        |        |                   |                 |                                      |                             |                       |                  |          |       |                      |            |            |         |           |               |            |          |                |                   |        |
|------------------------------------------|--------|--------|-------------------|-----------------|--------------------------------------|-----------------------------|-----------------------|------------------|----------|-------|----------------------|------------|------------|---------|-----------|---------------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                |        |        | Mode              | Bandwidth [MHz] | Dual Display Accessory Configuration | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Side  | Test Position        | Waveform   | Modulation | RB Size | RB Offset | 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              | #3                                   | 24.5                        | 23.90                 | -0.07            | 0        | Right | Cheek                | DFT-S-OFDM | QPSK       | 1       | 104       | 05209         | 1:1        | 0.116    | 1.148          | 0.133             | A21    |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | #3                                   | 24.5                        | 23.90                 | 0.14             | 0        | Right | Tilt                 | DFT-S-OFDM | QPSK       | 1       | 104       | 05209         | 1:1        | 0.032    | 1.148          | 0.037             |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | #3                                   | 24.5                        | 23.90                 | -0.17            | 0        | Left  | Cheek                | DFT-S-OFDM | QPSK       | 1       | 104       | 05209         | 1:1        | 0.063    | 1.148          | 0.072             |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | #3                                   | 24.5                        | 23.90                 | 0.14             | 0        | Left  | Tilt                 | DFT-S-OFDM | QPSK       | 1       | 104       | 05209         | 1:1        | 0.045    | 1.148          | 0.052             |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | -                                    | 24.0                        | 23.46                 | 0.08             | 0        | Right | Cheek                | DFT-S-OFDM | QPSK       | 1       | 1         | 05209         | 1:1        | 0.101    | 1.132          | 0.114             |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | -                                    | 24.0                        | 23.37                 | -0.01            | 0        | Right | Cheek                | DFT-S-OFDM | QPSK       | 50      | 0         | 05209         | 1:1        | 0.097    | 1.156          | 0.112             |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | -                                    | 24.0                        | 23.17                 | 0.16             | 0        | Right | Cheek                | CP-OFDM    | QPSK       | 1       | 1         | 05209         | 1:1        | 0.092    | 1.211          | 0.111             |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | -                                    | 24.0                        | 23.46                 | 0.01             | 0        | Right | Tilt                 | DFT-S-OFDM | QPSK       | 1       | 1         | 05209         | 1:1        | 0.029    | 1.132          | 0.033             |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | -                                    | 24.0                        | 23.37                 | 0.16             | 0        | Right | Tilt                 | DFT-S-OFDM | QPSK       | 50      | 0         | 05209         | 1:1        | 0.030    | 1.156          | 0.035             |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | -                                    | 24.0                        | 23.46                 | 0.05             | 0        | Left  | Cheek                | DFT-S-OFDM | QPSK       | 1       | 1         | 05209         | 1:1        | 0.045    | 1.132          | 0.051             |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | -                                    | 24.0                        | 23.37                 | 0.04             | 0        | Left  | Cheek                | DFT-S-OFDM | QPSK       | 50      | 0         | 05209         | 1:1        | 0.047    | 1.156          | 0.054             |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | -                                    | 24.0                        | 23.46                 | 0.15             | 0        | Left  | Tilt                 | DFT-S-OFDM | QPSK       | 1       | 1         | 05209         | 1:1        | 0.033    | 1.132          | 0.037             |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | -                                    | 24.0                        | 23.37                 | 0.06             | 0        | Left  | Tilt                 | DFT-S-OFDM | QPSK       | 50      | 0         | 05209         | 1:1        | 0.034    | 1.156          | 0.039             |        |
| ANSI / IEEE C95.1 1992 - SAFETY LIMIT    |        |        |                   |                 |                                      |                             |                       |                  |          |       | Head                 |            |            |         |           |               |            |          |                |                   |        |
| Spatial Peak                             |        |        |                   |                 |                                      |                             |                       |                  |          |       | 1.6 W/kg (mW/g)      |            |            |         |           |               |            |          |                |                   |        |
| Uncontrolled Exposure/General Population |        |        |                   |                 |                                      |                             |                       |                  |          |       | averaged over 1 gram |            |            |         |           |               |            |          |                |                   |        |

Note: Light orange entries represent additional Head SAR Position (DD #3: 360 degrees)

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                  | DUT Type:<br>Portable Handset |                                                                                       | Page 153 of 224                 |

**Table 11-22**  
**NR Band n25 (PCS) Head SAR**

| MEASUREMENT RESULTS                                                                               |        |      |                   |                             |                       |                  |          |      |                                                 |          |            |         |           |               |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|--------|------|-------------------|-----------------------------|-----------------------|------------------|----------|------|-------------------------------------------------|----------|------------|---------|-----------|---------------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |        | Mode | Bandwidth [MHz]   | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Side | Test Position                                   | Waveform | Modulation | RB Size | RB Offset | Serial Number | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |
| MHz                                                                                               | Ch.    |      |                   |                             |                       |                  |          |      |                                                 |          |            |         |           |               |            | (W/kg)   |                | (W/kg)            |        |     |
| 1860.00                                                                                           | 372000 | Low  | NR Band n25 (PCS) | 20                          | 24.5                  | 23.88            | 0.10     | 0    | Right                                           | Cheek    | DFT-S-OFDM | QPSK    | 1         | 104           | 05209      | 1:1      | 0.192          | 1.153             | 0.221  |     |
| 1860.00                                                                                           | 372000 | Low  | NR Band n25 (PCS) | 20                          | 24.5                  | 23.94            | 0.12     | 0    | Right                                           | Cheek    | DFT-S-OFDM | QPSK    | 50        | 28            | 05209      | 1:1      | 0.196          | 1.138             | 0.223  | A22 |
| 1860.00                                                                                           | 372000 | Low  | NR Band n25 (PCS) | 20                          | 24.0                  | 23.26            | -0.01    | 0.5  | Right                                           | Cheek    | CP-OFDM    | QPSK    | 1         | 1             | 05209      | 1:1      | 0.161          | 1.186             | 0.191  |     |
| 1860.00                                                                                           | 372000 | Low  | NR Band n25 (PCS) | 20                          | 24.5                  | 23.88            | 0.12     | 0    | Right                                           | Tilt     | DFT-S-OFDM | QPSK    | 1         | 104           | 05209      | 1:1      | 0.070          | 1.153             | 0.081  |     |
| 1860.00                                                                                           | 372000 | Low  | NR Band n25 (PCS) | 20                          | 24.5                  | 23.94            | 0.21     | 0    | Right                                           | Tilt     | DFT-S-OFDM | QPSK    | 50        | 28            | 05209      | 1:1      | 0.069          | 1.138             | 0.079  |     |
| 1860.00                                                                                           | 372000 | Low  | NR Band n25 (PCS) | 20                          | 24.5                  | 23.88            | 0.08     | 0    | Left                                            | Cheek    | DFT-S-OFDM | QPSK    | 1         | 104           | 05209      | 1:1      | 0.129          | 1.153             | 0.149  |     |
| 1860.00                                                                                           | 372000 | Low  | NR Band n25 (PCS) | 20                          | 24.5                  | 23.94            | 0.16     | 0    | Left                                            | Cheek    | DFT-S-OFDM | QPSK    | 50        | 28            | 05209      | 1:1      | 0.140          | 1.138             | 0.159  |     |
| 1860.00                                                                                           | 372000 | Low  | NR Band n25 (PCS) | 20                          | 24.5                  | 23.88            | 0.16     | 0    | Left                                            | Tilt     | DFT-S-OFDM | QPSK    | 1         | 104           | 05209      | 1:1      | 0.081          | 1.153             | 0.093  |     |
| 1860.00                                                                                           | 372000 | Low  | NR Band n25 (PCS) | 20                          | 24.5                  | 23.94            | 0.12     | 0    | Left                                            | Tilt     | DFT-S-OFDM | QPSK    | 50        | 28            | 05209      | 1:1      | 0.087          | 1.138             | 0.099  |     |
| 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 |          |            |         |           |               |            |          |                |                   |        |     |

Note: Light orange entries represent additional Head SAR Position (DD #3: 360 degrees)

**Table 11-23**  
**NR Band n41 Head SAR**

| MEASUREMENT RESULTS                                                                               |        |      |                 |                                      |                             |                       |                  |          |      |               |                                                 |            |         |           |               |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|--------|------|-----------------|--------------------------------------|-----------------------------|-----------------------|------------------|----------|------|---------------|-------------------------------------------------|------------|---------|-----------|---------------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |        | Mode | Bandwidth [MHz] | Dual Display Accessory Configuration | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Side | Test Position | Waveform                                        | Modulation | RB Size | RB Offset | 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                                  | #3                          | 25.0                  | 24.41            | -0.13    | 0    | Right         | Cheek                                           | DFT-S-OFDM | QPSK    | 1         | 1             | 05209      | 1:4      | 0.034          | 1.146             | 0.039  | A23 |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41     | 100                                  | #3                          | 25.0                  | 24.41            | -0.13    | 0    | Right         | Tilt                                            | DFT-S-OFDM | QPSK    | 1         | 1             | 05209      | 1:4      | 0.054          | 1.146             | 0.062  |     |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41     | 100                                  | #3                          | 25.0                  | 24.41            | 0.16     | 0    | Left          | Cheek                                           | DFT-S-OFDM | QPSK    | 1         | 1             | 05209      | 1:4      | 0.036          | 1.146             | 0.041  |     |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41     | 100                                  | #3                          | 25.0                  | 24.41            | 0.18     | 0    | Left          | Tilt                                            | DFT-S-OFDM | QPSK    | 1         | 1             | 05209      | 1:4      | 0.039          | 1.146             | 0.045  |     |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41     | 100                                  | -                           | 24.0                  | 23.47            | 0.14     | 0    | Right         | Cheek                                           | DFT-S-OFDM | QPSK    | 1         | 271           | 05191      | 1:4      | 0.023          | 1.130             | 0.026  |     |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41     | 100                                  | -                           | 24.0                  | 23.28            | 0.13     | 0    | Right         | Cheek                                           | DFT-S-OFDM | QPSK    | 135       | 138           | 05191      | 1:4      | 0.023          | 1.180             | 0.027  |     |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41     | 100                                  | -                           | 24.0                  | 23.47            | 0.02     | 0    | Right         | Tilt                                            | DFT-S-OFDM | QPSK    | 1         | 271           | 05191      | 1:4      | 0.004          | 1.130             | 0.005  |     |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41     | 100                                  | -                           | 24.0                  | 23.28            | 0.00     | 0    | Right         | Tilt                                            | DFT-S-OFDM | QPSK    | 135       | 138           | 05191      | 1:4      | 0.003          | 1.180             | 0.004  |     |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41     | 100                                  | -                           | 24.0                  | 23.47            | -0.19    | 0    | Left          | Cheek                                           | DFT-S-OFDM | QPSK    | 1         | 271           | 05191      | 1:4      | 0.025          | 1.130             | 0.028  |     |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41     | 100                                  | -                           | 24.0                  | 23.28            | 0.15     | 0    | Left          | Cheek                                           | DFT-S-OFDM | QPSK    | 135       | 138           | 05191      | 1:4      | 0.026          | 1.180             | 0.031  |     |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41     | 100                                  | -                           | 23.5                  | 23.01            | 0.13     | 0.5  | Left          | Cheek                                           | CP-OFDM    | QPSK    | 1         | 1             | 05191      | 1:4      | 0.024          | 1.119             | 0.027  |     |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41     | 100                                  | -                           | 24.0                  | 23.47            | 0.19     | 0    | Left          | Tilt                                            | DFT-S-OFDM | QPSK    | 1         | 271           | 05191      | 1:4      | 0.005          | 1.130             | 0.006  |     |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41     | 100                                  | -                           | 24.0                  | 23.28            | 0.12     | 0    | Left          | Tilt                                            | DFT-S-OFDM | QPSK    | 135       | 138           | 05191      | 1:4      | 0.005          | 1.180             | 0.006  |     |
| 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 |            |         |           |               |            |          |                |                   |        |     |

Note: Light orange entries represent additional Head SAR Position (DD #3: 360 degrees)

|                                         |                                                                                                                                  |                               |                                                                                       |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset |                                                                                       | Page 154 of 224                 |

**Table 11-24  
DTS Head SAR**

| MEASUREMENT RESULTS                                                                               |     |         |         |                 |                             |                       |                  |                                                 |               |                 |                                      |                      |                  |                |                       |          |                        |                             |                   |        |
|---------------------------------------------------------------------------------------------------|-----|---------|---------|-----------------|-----------------------------|-----------------------|------------------|-------------------------------------------------|---------------|-----------------|--------------------------------------|----------------------|------------------|----------------|-----------------------|----------|------------------------|-----------------------------|-------------------|--------|
| FREQUENCY                                                                                         |     | Mode    | Service | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Side                                            | Test Position | Antenna Config. | Dual Display Accessory Configuration | 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)                      | (W/kg)            |        |
| 2462                                                                                              | 11  | 802.11b | DSSS    | 22              | 16.5                        | 15.78                 | 0.10             | Right                                           | Cheek         | 1               | -                                    | 05381                | 1                | 99.3           | 0.497                 | 0.383    | 1.180                  | 1.007                       | 0.455             |        |
| 2462                                                                                              | 11  | 802.11b | DSSS    | 22              | 16.5                        | 15.78                 | 0.13             | Right                                           | Tilt          | 1               | -                                    | 05381                | 1                | 99.3           | 0.465                 | 0.209    | 1.180                  | 1.007                       | 0.248             |        |
| 2462                                                                                              | 11  | 802.11b | DSSS    | 22              | 16.5                        | 15.78                 | 0.16             | Left                                            | Cheek         | 1               | -                                    | 05381                | 1                | 99.3           | 0.127                 | -        | 1.180                  | 1.007                       | -                 |        |
| 2462                                                                                              | 11  | 802.11b | DSSS    | 22              | 16.5                        | 15.78                 | 0.14             | Left                                            | Tilt          | 1               | -                                    | 05381                | 1                | 99.3           | 0.140                 | -        | 1.180                  | 1.007                       | -                 |        |
| 2412                                                                                              | 1   | 802.11b | DSSS    | 22              | 16.5                        | 15.63                 | 0.12             | Right                                           | Cheek         | 2               | -                                    | 05381                | 1                | 99.3           | 0.580                 | 0.406    | 1.222                  | 1.007                       | 0.500             |        |
| 2437                                                                                              | 6   | 802.11b | DSSS    | 22              | 16.5                        | 16.12                 | 0.13             | Right                                           | Cheek         | 2               | -                                    | 05381                | 1                | 99.3           | 0.991                 | 0.653    | 1.091                  | 1.007                       | 0.717             |        |
| 2437                                                                                              | 6   | 802.11b | DSSS    | 22              | 16.5                        | 16.12                 | 0.10             | Right                                           | Cheek         | 2               | #1                                   | 05381                | 1                | 99.3           | 0.219                 | 0.158    | 1.091                  | 1.007                       | 0.174             |        |
| 2437                                                                                              | 6   | 802.11b | DSSS    | 22              | 16.5                        | 16.12                 | 0.12             | Right                                           | Cheek         | 2               | #3                                   | 05381                | 1                | 99.3           | 1.037                 | 0.701    | 1.091                  | 1.007                       | 0.770             | A24    |
| 2462                                                                                              | 11  | 802.11b | DSSS    | 22              | 16.5                        | 15.61                 | 0.06             | Right                                           | Cheek         | 2               | -                                    | 05381                | 1                | 99.3           | 0.747                 | 0.492    | 1.227                  | 1.007                       | 0.608             |        |
| 2437                                                                                              | 6   | 802.11b | DSSS    | 22              | 16.5                        | 16.12                 | 0.20             | Right                                           | Tilt          | 2               | -                                    | 05381                | 1                | 99.3           | 0.952                 | 0.578    | 1.091                  | 1.007                       | 0.635             |        |
| 2437                                                                                              | 6   | 802.11b | DSSS    | 22              | 16.5                        | 16.12                 | 0.20             | Left                                            | Cheek         | 2               | -                                    | 05381                | 1                | 99.3           | 0.538                 | 0.315    | 1.091                  | 1.007                       | 0.346             |        |
| 2437                                                                                              | 6   | 802.11b | DSSS    | 22              | 16.5                        | 16.12                 | -0.15            | Left                                            | Tilt          | 2               | -                                    | 05381                | 1                | 99.3           | 0.462                 | -        | 1.091                  | 1.007                       | -                 |        |
| 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 |               |                 |                                      |                      |                  |                |                       |          |                        |                             |                   |        |

Note: 1) Green entries represent additional Head SAR Position (DD #1: 0 degrees) 2) Light orange entries represent additional Head SAR Position (DD #3: 360 degrees)

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 155 of 224                 |

**Table 11-25  
NII 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)            |        |
| 5270                                     | 54  | 802.11n | OFDM    | 40              | 16.0                        | 15.87                 | 0.15             | Right | Cheek                                   | 1               | 05381                | 13.5             | 97.4           | 0.446                 | 0.195    | 1.030                  | 1.027                       | 0.206             |        |
| 5270                                     | 54  | 802.11n | OFDM    | 40              | 16.0                        | 15.87                 | 0.13             | Right | Tilt                                    | 1               | 05381                | 13.5             | 97.4           | 0.288                 | -        | 1.030                  | 1.027                       | -                 |        |
| 5270                                     | 54  | 802.11n | OFDM    | 40              | 16.0                        | 15.87                 | 0.16             | Left  | Cheek                                   | 1               | 05381                | 13.5             | 97.4           | 0.190                 | -        | 1.030                  | 1.027                       | -                 |        |
| 5270                                     | 54  | 802.11n | OFDM    | 40              | 16.0                        | 15.87                 | 0.14             | Left  | Tilt                                    | 1               | 05381                | 13.5             | 97.4           | 0.204                 | -        | 1.030                  | 1.027                       | -                 |        |
| 5270                                     | 54  | 802.11n | OFDM    | 40              | 16.0                        | 15.79                 | 0.14             | Right | Cheek                                   | 2               | 05381                | 13.5             | 97.3           | 0.526                 | 0.284    | 1.050                  | 1.028                       | 0.307             | A25    |
| 5270                                     | 54  | 802.11n | OFDM    | 40              | 16.0                        | 15.79                 | 0.16             | Right | Tilt                                    | 2               | 05381                | 13.5             | 97.3           | 0.405                 | -        | 1.050                  | 1.028                       | -                 |        |
| 5270                                     | 54  | 802.11n | OFDM    | 40              | 16.0                        | 15.79                 | 0.12             | Left  | Cheek                                   | 2               | 05381                | 13.5             | 97.3           | 0.118                 | -        | 1.050                  | 1.028                       | -                 |        |
| 5270                                     | 54  | 802.11n | OFDM    | 40              | 16.0                        | 15.79                 | 0.19             | Left  | Tilt                                    | 2               | 05381                | 13.5             | 97.3           | 0.137                 | -        | 1.050                  | 1.028                       | -                 |        |
| 5710                                     | 142 | 802.11n | OFDM    | 40              | 16.0                        | 15.90                 | 0.19             | Right | Cheek                                   | 1               | 05381                | 13.5             | 97.4           | 0.073                 | -        | 1.023                  | 1.027                       | -                 |        |
| 5710                                     | 142 | 802.11n | OFDM    | 40              | 16.0                        | 15.90                 | 0.12             | Right | Tilt                                    | 1               | 05381                | 13.5             | 97.4           | 0.086                 | 0.048    | 1.023                  | 1.027                       | 0.050             |        |
| 5710                                     | 142 | 802.11n | OFDM    | 40              | 16.0                        | 15.90                 | 0.19             | Left  | Cheek                                   | 1               | 05381                | 13.5             | 97.4           | 0.041                 | -        | 1.023                  | 1.027                       | -                 |        |
| 5710                                     | 142 | 802.11n | OFDM    | 40              | 16.0                        | 15.90                 | 0.19             | Left  | Tilt                                    | 1               | 05381                | 13.5             | 97.4           | 0.045                 | -        | 1.023                  | 1.027                       | -                 |        |
| 5710                                     | 142 | 802.11n | OFDM    | 40              | 16.0                        | 15.89                 | 0.12             | Right | Cheek                                   | 2               | 05381                | 13.5             | 97.3           | 0.555                 | 0.230    | 1.026                  | 1.028                       | 0.243             |        |
| 5710                                     | 142 | 802.11n | OFDM    | 40              | 16.0                        | 15.89                 | 0.11             | Right | Tilt                                    | 2               | 05381                | 13.5             | 97.3           | 0.267                 | -        | 1.026                  | 1.028                       | -                 |        |
| 5710                                     | 142 | 802.11n | OFDM    | 40              | 16.0                        | 15.89                 | 0.17             | Left  | Cheek                                   | 2               | 05381                | 13.5             | 97.3           | 0.162                 | -        | 1.026                  | 1.028                       | -                 |        |
| 5710                                     | 142 | 802.11n | OFDM    | 40              | 16.0                        | 15.89                 | 0.19             | Left  | Tilt                                    | 2               | 05381                | 13.5             | 97.3           | 0.138                 | -        | 1.026                  | 1.028                       | -                 |        |
| 5795                                     | 159 | 802.11n | OFDM    | 40              | 16.0                        | 15.89                 | 0.19             | Right | Cheek                                   | 1               | 05381                | 13.5             | 97.4           | 0.059                 | 0.029    | 1.026                  | 1.027                       | 0.031             |        |
| 5795                                     | 159 | 802.11n | OFDM    | 40              | 16.0                        | 15.89                 | 0.19             | Right | Tilt                                    | 1               | 05381                | 13.5             | 97.4           | 0.053                 | -        | 1.026                  | 1.027                       | -                 |        |
| 5795                                     | 159 | 802.11n | OFDM    | 40              | 16.0                        | 15.89                 | 0.19             | Left  | Cheek                                   | 1               | 05381                | 13.5             | 97.4           | 0.034                 | -        | 1.026                  | 1.027                       | -                 |        |
| 5795                                     | 159 | 802.11n | OFDM    | 40              | 16.0                        | 15.89                 | 0.19             | Left  | Tilt                                    | 1               | 05381                | 13.5             | 97.4           | 0.029                 | -        | 1.026                  | 1.027                       | -                 |        |
| 5795                                     | 159 | 802.11n | OFDM    | 40              | 16.0                        | 15.96                 | 0.12             | Right | Cheek                                   | 2               | 05381                | 13.5             | 97.3           | 0.312                 | 0.139    | 1.009                  | 1.028                       | 0.144             |        |
| 5795                                     | 159 | 802.11n | OFDM    | 40              | 16.0                        | 15.96                 | 0.13             | Right | Tilt                                    | 2               | 05381                | 13.5             | 97.3           | 0.247                 | -        | 1.009                  | 1.028                       | -                 |        |
| 5795                                     | 159 | 802.11n | OFDM    | 40              | 16.0                        | 15.96                 | -0.13            | Left  | Cheek                                   | 2               | 05381                | 13.5             | 97.3           | 0.205                 | -        | 1.009                  | 1.028                       | -                 |        |
| 5795                                     | 159 | 802.11n | OFDM    | 40              | 16.0                        | 15.96                 | 0.14             | Left  | Tilt                                    | 2               | 05381                | 13.5             | 97.3           | 0.197                 | -        | 1.009                  | 1.028                       | -                 |        |
| 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 |                 |                      |                  |                |                       |          |                        |                             |                   |        |

**Table 11-26  
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)            |        |
| 2402.00                                                                                           | 0   | Bluetooth | FHSS    | 11.0                        | 10.20                 | -0.14            | Right | Cheek                                           | 05381                | 1                | 77.3           | 0.084    | 1.202                       | 1.294                       | 0.131             | A26    |
| 2402.00                                                                                           | 0   | Bluetooth | FHSS    | 11.0                        | 10.20                 | 0.13             | Right | Tilt                                            | 05381                | 1                | 77.3           | 0.037    | 1.202                       | 1.294                       | 0.058             |        |
| 2402.00                                                                                           | 0   | Bluetooth | FHSS    | 11.0                        | 10.20                 | 0.14             | Left  | Cheek                                           | 05381                | 1                | 77.3           | 0.010    | 1.202                       | 1.294                       | 0.016             |        |
| 2402.00                                                                                           | 0   | Bluetooth | FHSS    | 11.0                        | 10.20                 | 0.16             | Left  | Tilt                                            | 05381                | 1                | 77.3           | 0.010    | 1.202                       | 1.294                       | 0.016             |        |
| 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: ZNFG900UM                       |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                  | DUT Type:<br>Portable Handset | Page 156 of 224                                                                       |                                 |

## 11.2 Standalone Body-Worn SAR Data

**Table 11-27**  
**GSM/UMTS/CDMA Body-Worn SAR Data**

| MEASUREMENT RESULTS                                                                               |      |            |             |                             |                       |                  |                                                 |           |                      |                 |            |      |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|------|------------|-------------|-----------------------------|-----------------------|------------------|-------------------------------------------------|-----------|----------------------|-----------------|------------|------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |      | Mode       | Service     | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Spacing                                         | Ant State | Device Serial Number | # of Time Slots | Duty Cycle | Side | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |
| MHz                                                                                               | Ch.  |            |             |                             |                       |                  |                                                 |           |                      |                 |            |      | (W/kg)   |                | (W/kg)            |        |
| 824.70                                                                                            | 1013 | Cell. CDMA | TDSO / SO32 | 25.5                        | 24.95                 | -0.01            | 10 mm                                           | 8         | 05258                | N/A             | 1:1        | back | 0.520    | 1.135          | 0.590             |        |
| 836.52                                                                                            | 384  | Cell. CDMA | TDSO / SO32 | 25.5                        | 25.17                 | -0.04            | 10 mm                                           | 8         | 05258                | N/A             | 1:1        | back | 0.567    | 1.079          | 0.612             | A27    |
| 848.31                                                                                            | 777  | Cell. CDMA | TDSO / SO32 | 25.5                        | 25.07                 | 0.00             | 10 mm                                           | 8         | 05258                | N/A             | 1:1        | back | 0.551    | 1.104          | 0.608             |        |
| 1851.25                                                                                           | 25   | PCS CDMA   | TDSO / SO32 | 25.5                        | 24.99                 | -0.03            | 10 mm                                           | N/A       | 05258                | N/A             | 1:1        | back | 0.726    | 1.125          | 0.817             |        |
| 1880.00                                                                                           | 600  | PCS CDMA   | TDSO / SO32 | 25.5                        | 25.07                 | -0.03            | 10 mm                                           | N/A       | 05258                | N/A             | 1:1        | back | 0.750    | 1.104          | 0.828             |        |
| 1908.75                                                                                           | 1175 | PCS CDMA   | TDSO / SO32 | 25.5                        | 25.07                 | -0.04            | 10 mm                                           | N/A       | 05258                | N/A             | 1:1        | back | 0.768    | 1.104          | 0.848             | A29    |
| 836.60                                                                                            | 190  | GSM 850    | GSM         | 33.5                        | 33.00                 | 0.03             | 10 mm                                           | N/A       | 05266                | 1               | 1:8.3      | back | 0.317    | 1.122          | 0.356             |        |
| 836.60                                                                                            | 190  | GSM 850    | GPRS        | 29.0                        | 28.43                 | -0.11            | 10 mm                                           | N/A       | 05266                | 4               | 1:2.076    | back | 0.500    | 1.140          | 0.570             | A31    |
| 1880.00                                                                                           | 661  | GSM 1900   | GSM         | 30.5                        | 29.90                 | -0.18            | 10 mm                                           | N/A       | 05290                | 1               | 1:8.3      | back | 0.258    | 1.148          | 0.296             |        |
| 1880.00                                                                                           | 661  | GSM 1900   | GPRS        | 28.0                        | 27.70                 | -0.15            | 10 mm                                           | N/A       | 05290                | 3               | 1:2.76     | back | 0.384    | 1.072          | 0.412             | A32    |
| 836.60                                                                                            | 4183 | UMTS 850   | RMC         | 25.5                        | 25.04                 | -0.01            | 10 mm                                           | 8         | 05266                | N/A             | 1:1        | back | 0.520    | 1.112          | 0.578             | A34    |
| 1712.40                                                                                           | 1312 | UMTS 1750  | RMC         | 25.5                        | 25.02                 | -0.04            | 10 mm                                           | N/A       | 05282                | N/A             | 1:1        | back | 0.610    | 1.117          | 0.681             |        |
| 1732.40                                                                                           | 1412 | UMTS 1750  | RMC         | 25.5                        | 25.10                 | -0.06            | 10 mm                                           | N/A       | 05282                | N/A             | 1:1        | back | 0.681    | 1.096          | 0.746             |        |
| 1752.60                                                                                           | 1513 | UMTS 1750  | RMC         | 25.5                        | 25.05                 | -0.04            | 10 mm                                           | N/A       | 05282                | N/A             | 1:1        | back | 0.697    | 1.109          | 0.773             | A35    |
| 1852.40                                                                                           | 9262 | UMTS 1900  | RMC         | 25.5                        | 25.02                 | 0.00             | 10 mm                                           | N/A       | 05258                | N/A             | 1:1        | back | 0.715    | 1.117          | 0.799             |        |
| 1880.00                                                                                           | 9400 | UMTS 1900  | RMC         | 25.5                        | 25.09                 | 0.00             | 10 mm                                           | N/A       | 05258                | N/A             | 1:1        | back | 0.776    | 1.099          | 0.853             | A37    |
| 1907.60                                                                                           | 9538 | UMTS 1900  | RMC         | 25.5                        | 25.05                 | 0.06             | 10 mm                                           | N/A       | 05258                | N/A             | 1:1        | back | 0.754    | 1.109          | 0.836             |        |
| 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: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 157 of 224                 |

**Table 11-28**  
**LTE Body-Worn SAR**

| MEASUREMENT RESULTS                                   |        |        |                   |                 |                                      |                             |                       |                  |          |           |       |                                                 |            |         |           |         |      |            |          |                |                   |        |
|-------------------------------------------------------|--------|--------|-------------------|-----------------|--------------------------------------|-----------------------------|-----------------------|------------------|----------|-----------|-------|-------------------------------------------------|------------|---------|-----------|---------|------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                             |        |        | Mode              | Bandwidth [MHz] | Dual Display Accessory Configuration | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Ant State | Ant   | 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              | -                                    | 25.5                        | 25.40                 | -0.03            | 0        | 30        | Ant 1 | 05266                                           | QPSK       | 1       | 50        | 10 mm   | back | 1:1        | 0.356    | 1.023          | 0.364             | A39    |
| 680.50                                                | 133297 | Mid    | LTE Band 71       | 20              | -                                    | 24.5                        | 24.47                 | -0.04            | 1        | 30        | Ant 1 | 05266                                           | QPSK       | 50      | 0         | 10 mm   | back | 1:1        | 0.281    | 1.007          | 0.283             |        |
| 707.50                                                | 23095  | Mid    | LTE Band 12       | 10              | -                                    | 25.5                        | 25.31                 | -0.01            | 0        | 19        | Ant 1 | 05266                                           | QPSK       | 1       | 49        | 10 mm   | back | 1:1        | 0.376    | 1.045          | 0.393             | A40    |
| 707.50                                                | 23095  | Mid    | LTE Band 12       | 10              | -                                    | 24.5                        | 24.34                 | -0.14            | 1        | 19        | Ant 1 | 05266                                           | QPSK       | 25      | 25        | 10 mm   | back | 1:1        | 0.305    | 1.038          | 0.317             |        |
| 782.00                                                | 23230  | Mid    | LTE Band 13       | 10              | -                                    | 25.5                        | 25.33                 | 0.11             | 0        | 14        | Ant 1 | 05266                                           | QPSK       | 1       | 25        | 10 mm   | back | 1:1        | 0.411    | 1.040          | 0.427             | A41    |
| 782.00                                                | 23230  | Mid    | LTE Band 13       | 10              | -                                    | 24.5                        | 24.33                 | -0.01            | 1        | 14        | Ant 1 | 05266                                           | QPSK       | 25      | 25        | 10 mm   | back | 1:1        | 0.333    | 1.040          | 0.346             |        |
| 793.00                                                | 23330  | Mid    | LTE Band 14       | 10              | -                                    | 25.5                        | 25.33                 | 0.02             | 0        | 13        | Ant 1 | 05266                                           | QPSK       | 1       | 0         | 10 mm   | back | 1:1        | 0.411    | 1.040          | 0.427             | A42    |
| 793.00                                                | 23330  | Mid    | LTE Band 14       | 10              | -                                    | 24.5                        | 24.26                 | 0.01             | 1        | 13        | Ant 1 | 05266                                           | QPSK       | 25      | 12        | 10 mm   | back | 1:1        | 0.321    | 1.057          | 0.339             |        |
| 1720.00                                               | 132072 | Low    | LTE Band 66 (AWS) | 20              | -                                    | 25.5                        | 25.26                 | -0.02            | 0        | N/A       | Ant 2 | 05282                                           | QPSK       | 1       | 50        | 10 mm   | back | 1:1        | 0.658    | 1.057          | 0.696             |        |
| 1745.00                                               | 132322 | Mid    | LTE Band 66 (AWS) | 20              | -                                    | 25.5                        | 25.27                 | -0.05            | 0        | N/A       | Ant 2 | 05282                                           | QPSK       | 1       | 50        | 10 mm   | back | 1:1        | 0.729    | 1.054          | 0.768             |        |
| 1770.00                                               | 132572 | High   | LTE Band 66 (AWS) | 20              | -                                    | 25.5                        | 25.36                 | -0.15            | 0        | N/A       | Ant 2 | 05282                                           | QPSK       | 1       | 0         | 10 mm   | back | 1:1        | 0.794    | 1.033          | 0.820             | A44    |
| 1770.00                                               | 132572 | High   | LTE Band 66 (AWS) | 20              | -                                    | 24.5                        | 24.40                 | 0.06             | 1        | N/A       | Ant 2 | 05282                                           | QPSK       | 50      | 0         | 10 mm   | back | 1:1        | 0.646    | 1.023          | 0.661             |        |
| 1720.00                                               | 132072 | Low    | LTE Band 66 (AWS) | 20              | -                                    | 24.5                        | 24.39                 | -0.05            | 1        | N/A       | Ant 2 | 05282                                           | QPSK       | 100     | 0         | 10 mm   | back | 1:1        | 0.540    | 1.026          | 0.554             |        |
| 1720.00                                               | 132072 | Low    | LTE Band 66 (AWS) | 20              | -                                    | 17.7                        | 17.16                 | -0.04            | 0        | N/A       | Ant 3 | 05258                                           | QPSK       | 1       | 0         | 10 mm   | back | 1:1        | 0.061    | 1.132          | 0.069             |        |
| 1720.00                                               | 132072 | Low    | LTE Band 66 (AWS) | 20              | -                                    | 17.7                        | 17.27                 | 0.06             | 0        | N/A       | Ant 3 | 05258                                           | QPSK       | 50      | 25        | 10 mm   | back | 1:1        | 0.071    | 1.104          | 0.078             |        |
| 1860.00                                               | 18700  | Low    | LTE Band 2 (PCS)  | 20              | -                                    | 17.7                        | 17.47                 | -0.06            | 0        | N/A       | Ant 3 | 05258                                           | QPSK       | 1       | 0         | 10 mm   | back | 1:1        | 0.115    | 1.054          | 0.121             |        |
| 1860.00                                               | 18700  | Low    | LTE Band 2 (PCS)  | 20              | -                                    | 17.7                        | 17.53                 | -0.10            | 0        | N/A       | Ant 3 | 05258                                           | QPSK       | 50      | 25        | 10 mm   | back | 1:1        | 0.118    | 1.040          | 0.123             | A46    |
| 1860.00                                               | 26140  | Low    | LTE Band 25 (PCS) | 20              | -                                    | 25.5                        | 24.64                 | 0.01             | 0        | N/A       | Ant 2 | 05258                                           | QPSK       | 1       | 99        | 10 mm   | back | 1:1        | 0.704    | 1.219          | 0.858             |        |
| 1882.50                                               | 26365  | Mid    | LTE Band 25 (PCS) | 20              | -                                    | 25.5                        | 24.91                 | 0.02             | 0        | N/A       | Ant 2 | 05258                                           | QPSK       | 1       | 99        | 10 mm   | back | 1:1        | 0.769    | 1.146          | 0.881             |        |
| 1905.00                                               | 26590  | High   | LTE Band 25 (PCS) | 20              | -                                    | 25.5                        | 24.86                 | 0.01             | 0        | N/A       | Ant 2 | 05258                                           | QPSK       | 1       | 99        | 10 mm   | back | 1:1        | 0.794    | 1.159          | 0.920             | A48    |
| 1860.00                                               | 26140  | Low    | LTE Band 25 (PCS) | 20              | #1                                   | 24.5                        | 23.86                 | 0.10             | 0        | N/A       | Ant 2 | 05282                                           | QPSK       | 1       | 50        | 10 mm   | back | 1:1        | 0.716    | 1.159          | 0.830             |        |
| 1882.50                                               | 26365  | Mid    | LTE Band 25 (PCS) | 20              | #1                                   | 24.5                        | 23.69                 | 0.14             | 0        | N/A       | Ant 2 | 05282                                           | QPSK       | 1       | 99        | 10 mm   | back | 1:1        | 0.710    | 1.205          | 0.856             |        |
| 1905.00                                               | 26590  | High   | LTE Band 25 (PCS) | 20              | #1                                   | 24.5                        | 23.67                 | 0.16             | 0        | N/A       | Ant 2 | 05282                                           | QPSK       | 1       | 0         | 10 mm   | back | 1:1        | 0.720    | 1.211          | 0.872             |        |
| 1905.00                                               | 26590  | High   | LTE Band 25 (PCS) | 20              | #2                                   | 24.5                        | 23.67                 | -0.01            | 0        | N/A       | Ant 2 | 05282                                           | QPSK       | 1       | 0         | 10 mm   | back | 1:1        | 0.643    | 1.211          | 0.779             |        |
| 1905.00                                               | 26590  | High   | LTE Band 25 (PCS) | 20              | #3                                   | 24.5                        | 23.67                 | -0.12            | 0        | N/A       | Ant 2 | 05282                                           | QPSK       | 1       | 0         | 10 mm   | back | 1:1        | 0.207    | 1.211          | 0.251             |        |
| 1882.50                                               | 26365  | Mid    | LTE Band 25 (PCS) | 20              | -                                    | 24.5                        | 23.99                 | -0.01            | 1        | N/A       | Ant 2 | 05258                                           | QPSK       | 50      | 50        | 10 mm   | back | 1:1        | 0.632    | 1.125          | 0.711             |        |
| 1905.00                                               | 26590  | High   | LTE Band 25 (PCS) | 20              | -                                    | 24.5                        | 23.85                 | 0.05             | 1        | N/A       | Ant 2 | 05258                                           | QPSK       | 100     | 0         | 10 mm   | back | 1:1        | 0.652    | 1.161          | 0.757             |        |
| 2310.00                                               | 27710  | Mid    | LTE Band 30       | 10              | -                                    | 23.0                        | 22.42                 | -0.05            | 0        | N/A       | Ant 2 | 05258                                           | QPSK       | 1       | 0         | 10 mm   | back | 1:1        | 0.533    | 1.143          | 0.609             | A50    |
| 2310.00                                               | 27710  | Mid    | LTE Band 30       | 10              | -                                    | 22.0                        | 21.56                 | -0.01            | 1        | N/A       | Ant 2 | 05258                                           | QPSK       | 25      | 12        | 10 mm   | back | 1:1        | 0.417    | 1.107          | 0.462             |        |
| 2510.00                                               | 20850  | Low    | LTE Band 7        | 20              | -                                    | 25.5                        | 24.51                 | -0.03            | 0        | N/A       | Ant 2 | 05258                                           | QPSK       | 1       | 0         | 10 mm   | back | 1:1        | 0.600    | 1.256          | 0.754             |        |
| 2535.00                                               | 21100  | Mid    | LTE Band 7        | 20              | -                                    | 25.5                        | 24.69                 | 0.00             | 0        | N/A       | Ant 2 | 05258                                           | QPSK       | 1       | 50        | 10 mm   | back | 1:1        | 0.610    | 1.205          | 0.735             |        |
| 2560.00                                               | 21350  | High   | LTE Band 7        | 20              | -                                    | 25.5                        | 24.74                 | -0.05            | 0        | N/A       | Ant 2 | 05258                                           | QPSK       | 1       | 99        | 10 mm   | back | 1:1        | 0.647    | 1.191          | 0.771             | A52    |
| 2560.00                                               | 21350  | High   | LTE Band 7        | 20              | -                                    | 24.5                        | 23.83                 | -0.04            | 1        | N/A       | Ant 2 | 05258                                           | QPSK       | 50      | 25        | 10 mm   | back | 1:1        | 0.531    | 1.167          | 0.620             |        |
| 2680.00                                               | 41490  | High   | LTE Band 41       | 20              | -                                    | 25.5                        | 25.24                 | -0.15            | 0        | N/A       | Ant 2 | 05258                                           | QPSK       | 1       | 50        | 10 mm   | back | 1:1.58     | 0.381    | 1.062          | 0.405             | A54    |
| 2680.00                                               | 41490  | High   | LTE Band 41       | 20              | -                                    | 24.5                        | 24.31                 | -0.03            | 1        | N/A       | Ant 2 | 05258                                           | QPSK       | 50      | 25        | 10 mm   | back | 1:1.58     | 0.307    | 1.045          | 0.321             |        |
| 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: 1) Green entries represent additional Body Worn SAR Position (DD #1: 0 degrees) 2) Purple entries represent additional Body Worn SAR Position (DD #2: 180 degrees) 3) Light orange entries represent additional Body Worn SAR Position (DD #3: 360 degrees)

**Table 11-29**  
**LTE Band 5 Body-Worn 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] | Ant State | Device Serial Number | Modulation                                      | RB Size | RB Offset | Spacing | Side  | Duty Cycle | SAR (lg) | Scaling Factor | Reported SAR (lg) | Plot # |     |
|                                                       |                   | MHz       | Ch.   |      |                   |                             |                       |                  |          |           |                      |                                                 |         |           |         |       |            | (W/kg)   |                | (W/kg)            |        |     |
| 1 CC Uplink                                           | N/A               | 836.50    | 20525 | Md   | LTE Band 5 (Cell) | 10                          | 25.5                  | 24.97            | -0.08    | 0         | 8                    | 05266                                           | QPSK    | 1         | 49      | 10 mm | back       | 1:1      | 0.542          | 1.130             | 0.612  |     |
| 1 CC Uplink                                           | N/A               | 836.50    | 20525 | Md   | LTE Band 5 (Cell) | 10                          | 24.5                  | 23.98            | -0.02    | 1         | 8                    | 05266                                           | QPSK    | 25        | 25      | 10 mm | back       | 1:1      | 0.441          | 1.127             | 0.497  |     |
| 2 CC Uplink                                           | PCC               | 836.50    | 20525 | Md   | LTE Band 5 (Cell) | 10                          | 25.5                  | 25.14            | -0.06    | 0         | 8                    | 05266                                           | QPSK    | 1         | 49      | 10 mm | back       | 1:1      | 0.560          | 1.086             | 0.608  | A43 |
|                                                       | SCC               | 843.70    | 20597 |      | LTE Band 5 (Cell) | 5                           |                       |                  |          |           |                      |                                                 |         | 1         | 0       |       |            |          |                |                   |        |     |
| 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: ZNFG900UM                       | <br>Proud to be part of element | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                 | DUT Type:<br>Portable Handset |                                                                                       | Page 158 of 224                 |

**Table 11-30**  
**NR Body-Worn SAR**

| MEASUREMENT RESULTS                      |        |      |                   |                                      |                             |                       |                  |          |           |               |                      |            |         |           |         |       |            |          |                |                   |        |     |
|------------------------------------------|--------|------|-------------------|--------------------------------------|-----------------------------|-----------------------|------------------|----------|-----------|---------------|----------------------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                |        | Mode | Bandwidth [MHz]   | Dual Display Accessory Configuration | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Ant State | Serial Number | Waveform             | 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                                   | -                           | 24.8                  | 24.04            | -0.06    | 0         | N/A           | 05209                | DFT-S-OFDM | QPSK    | 1         | 1       | 10 mm | back       | 1:1      | 0.033          | 1.191             | 0.039  |     |
| 680.50                                   | 136100 | Mid  | NR Band n71       | 20                                   | -                           | 24.8                  | 24.06            | 0.09     | 0         | N/A           | 05209                | DFT-S-OFDM | QPSK    | 50        | 28      | 10 mm | back       | 1:1      | 0.042          | 1.186             | 0.050  | A56 |
| 680.50                                   | 136100 | Mid  | NR Band n71       | 20                                   | -                           | 23.3                  | 22.13            | 0.13     | 1.5       | N/A           | 05209                | CP-OFDM    | QPSK    | 1         | 1       | 10 mm | back       | 1:1      | 0.020          | 1.309             | 0.026  |     |
| 836.50                                   | 167300 | Mid  | NR Band n5 (Cell) | 20                                   | -                           | 24.8                  | 24.11            | -0.11    | 0         | 8             | 05191                | DFT-S-OFDM | QPSK    | 1         | 1       | 10 mm | back       | 1:1      | 0.438          | 1.172             | 0.513  |     |
| 836.50                                   | 167300 | Mid  | NR Band n5 (Cell) | 20                                   | -                           | 24.8                  | 23.83            | -0.03    | 0         | 8             | 05191                | DFT-S-OFDM | QPSK    | 50        | 28      | 10 mm | back       | 1:1      | 0.440          | 1.250             | 0.550  | A57 |
| 836.50                                   | 167300 | Mid  | NR Band n5 (Cell) | 20                                   | -                           | 23.3                  | 21.93            | -0.03    | 1.5       | 8             | 05191                | CP-OFDM    | QPSK    | 1         | 1       | 10 mm | back       | 1:1      | 0.292          | 1.371             | 0.400  |     |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | 20                                   | #1                          | 24.5                  | 23.90            | 0.00     | 0         | N/A           | 05209                | DFT-S-OFDM | QPSK    | 1         | 104     | 10 mm | back       | 1:1      | 0.354          | 1.148             | 0.406  | A58 |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | 20                                   | -                           | 24.0                  | 23.46            | 0.12     | 0         | N/A           | 05209                | DFT-S-OFDM | QPSK    | 1         | 1       | 10 mm | back       | 1:1      | 0.335          | 1.132             | 0.379  |     |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | 20                                   | -                           | 24.0                  | 23.37            | -0.07    | 0         | N/A           | 05209                | DFT-S-OFDM | QPSK    | 50        | 0       | 10 mm | back       | 1:1      | 0.322          | 1.156             | 0.372  |     |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | 20                                   | -                           | 24.0                  | 23.17            | 0.02     | 0         | N/A           | 05209                | CP-OFDM    | QPSK    | 1         | 1       | 10 mm | back       | 1:1      | 0.278          | 1.211             | 0.337  |     |
| 1860.00                                  | 372000 | Low  | NR Band n25 (PCS) | 20                                   | -                           | 24.5                  | 23.88            | -0.14    | 0         | N/A           | 05209                | DFT-S-OFDM | QPSK    | 1         | 104     | 10 mm | back       | 1:1      | 0.538          | 1.153             | 0.620  | A60 |
| 1882.50                                  | 376500 | Mid  | NR Band n25 (PCS) | 20                                   | -                           | 24.5                  | 23.80            | -0.17    | 0         | N/A           | 05209                | DFT-S-OFDM | QPSK    | 1         | 1       | 10 mm | back       | 1:1      | 0.527          | 1.175             | 0.619  |     |
| 1905.00                                  | 381000 | High | NR Band n25 (PCS) | 20                                   | -                           | 24.5                  | 23.73            | -0.15    | 0         | N/A           | 05209                | DFT-S-OFDM | QPSK    | 1         | 104     | 10 mm | back       | 1:1      | 0.480          | 1.194             | 0.573  |     |
| 1860.00                                  | 372000 | Low  | NR Band n25 (PCS) | 20                                   | -                           | 24.5                  | 23.94            | -0.19    | 0         | N/A           | 05209                | DFT-S-OFDM | QPSK    | 50        | 28      | 10 mm | back       | 1:1      | 0.507          | 1.138             | 0.577  |     |
| 1860.00                                  | 372000 | Low  | NR Band n25 (PCS) | 20                                   | -                           | 24.0                  | 23.26            | -0.13    | 0.5       | N/A           | 05209                | CP-OFDM    | QPSK    | 1         | 1       | 10 mm | back       | 1:1      | 0.422          | 1.186             | 0.500  |     |
| 2592.99                                  | 518598 | Mid  | NR Band n41       | 100                                  | #1                          | 25.0                  | 24.41            | 0.03     | 0         | N/A           | 05191                | DFT-S-OFDM | QPSK    | 1         | 1       | 10 mm | back       | 1:4      | 0.354          | 1.146             | 0.406  |     |
| 2592.99                                  | 518598 | Mid  | NR Band n41       | 100                                  | -                           | 24.0                  | 23.47            | -0.14    | 0         | N/A           | 05191                | DFT-S-OFDM | QPSK    | 1         | 271     | 10 mm | back       | 1:4      | 0.473          | 1.130             | 0.534  |     |
| 2592.99                                  | 518598 | Mid  | NR Band n41       | 100                                  | -                           | 24.0                  | 23.28            | -0.03    | 0         | N/A           | 05191                | DFT-S-OFDM | QPSK    | 135       | 138     | 10 mm | back       | 1:4      | 0.484          | 1.180             | 0.571  | A62 |
| 2592.99                                  | 518598 | Mid  | NR Band n41       | 100                                  | -                           | 23.5                  | 23.01            | -0.15    | 0.5       | N/A           | 05191                | CP-OFDM    | QPSK    | 1         | 1       | 10 mm | back       | 1:4      | 0.309          | 1.119             | 0.346  |     |
| 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: 1) Green entries represent additional Body Worn SAR Position (DD #1: 0 degrees)

**Table 11-31**  
**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)            |        |
| 2412                                     | 1   | 802.11b | DSSS    | 22              | 20.5                        | 20.14                 | -0.03            | 10 mm                | 1               | 05381                | 1                | back | 99.3           | 0.229                 | 0.149    | 1.086                  | 1.007                       | 0.163             |        |
| 2462                                     | 11  | 802.11b | DSSS    | 22              | 20.5                        | 20.10                 | 0.17             | 10 mm                | 2               | 05381                | 1                | back | 99.3           | 0.359                 | 0.222    | 1.096                  | 1.007                       | 0.245             | A63    |
| 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: ZNFG900UM                       |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                  | DUT Type:<br>Portable Handset |                                                                                       | Page 159 of 224                 |

**Table 11-32**  
**NII 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)            |        |
| 5280                                                                                              | 56  | 802.11a | OFDM    | 20              | 19.0                        | 18.87                 | 0.08             | 10 mm                                           | 1               | 05381                | 6                | back | 98.3           | 0.958                 | 0.473    | 1.030                  | 1.017                       | 0.495             | A65    |
| 5280                                                                                              | 56  | 802.11a | OFDM    | 20              | 19.0                        | 18.85                 | 0.09             | 10 mm                                           | 2               | 05381                | 6                | back | 96.4           | 0.194                 | 0.094    | 1.035                  | 1.037                       | 0.101             |        |
| 5720                                                                                              | 144 | 802.11a | OFDM    | 20              | 17.0                        | 16.96                 | 0.10             | 10 mm                                           | 1               | 05381                | 6                | back | 98.3           | 0.298                 | 0.120    | 1.009                  | 1.017                       | 0.123             |        |
| 5600                                                                                              | 120 | 802.11a | OFDM    | 20              | 17.0                        | 16.78                 | 0.19             | 10 mm                                           | 2               | 05381                | 6                | back | 96.4           | 0.856                 | 0.382    | 1.052                  | 1.037                       | 0.417             |        |
| 5785                                                                                              | 157 | 802.11a | OFDM    | 20              | 19.0                        | 18.86                 | -0.06            | 10 mm                                           | 1               | 05381                | 6                | back | 98.3           | 0.480                 | 0.206    | 1.033                  | 1.017                       | 0.216             |        |
| 5785                                                                                              | 157 | 802.11a | OFDM    | 20              | 19.0                        | 18.93                 | 0.14             | 10 mm                                           | 2               | 05381                | 6                | back | 96.4           | 0.615                 | 0.248    | 1.016                  | 1.037                       | 0.261             |        |
| 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 11-33**  
**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)            |        |
| 2402                                                                                              | 0   | Bluetooth | FHSS    | 11.0                        | 10.20                 | 0.12             | 10 mm   | 05373                                           | 1                | back | 77.3           | 0.015    | 1.202                       | 1.294                       | 0.023             | A67    |
| 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: ZNFG900UM                       | <br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                             | DUT Type:<br>Portable Handset |                                                                                       | Page 160 of 224                 |

## 11.3 Standalone Hotspot SAR Data

**Table 11-34**  
**GPRS/UMTS/CDMA Hotspot SAR Data**

| MEASUREMENT RESULTS                      |      |            |                             |                       |               |                      |           |                                      |                      |                 |            |         |                 |                |                          |       |     |
|------------------------------------------|------|------------|-----------------------------|-----------------------|---------------|----------------------|-----------|--------------------------------------|----------------------|-----------------|------------|---------|-----------------|----------------|--------------------------|-------|-----|
| FREQUENCY                                | Mode | Service    | Maximum Allowed Power (dBm) | Conducted Power (dBm) | Power Dn (dB) | Spacing              | Ant State | Dual Display Accessory Configuration | Device Serial Number | # of Time Slots | Duty Cycle | Side    | SAR (1g) (W/kg) | Scaling Factor | Reported SAR (1g) (W/kg) | Plot  |     |
| MHz                                      | Ch.  |            |                             |                       |               |                      |           |                                      |                      |                 |            |         |                 |                |                          |       |     |
| 836.52                                   | 384  | Cell. CDMA | EVD0 Rev. 0                 | 25.5                  | 25.18         | -0.03                | 10 mm     | 8                                    | -                    | 05258           | N/A        | 1:1     | back            | 0.526          | 1.076                    | 0.566 | A28 |
| 836.52                                   | 384  | Cell. CDMA | EVD0 Rev. 0                 | 25.5                  | 25.18         | -0.02                | 10 mm     | 8                                    | -                    | 05258           | N/A        | 1:1     | front           | 0.486          | 1.076                    | 0.523 |     |
| 836.52                                   | 384  | Cell. CDMA | EVD0 Rev. 0                 | 25.5                  | 25.18         | -0.07                | 10 mm     | 8                                    | -                    | 05258           | N/A        | 1:1     | bottom          | 0.275          | 1.076                    | 0.296 |     |
| 836.52                                   | 384  | Cell. CDMA | EVD0 Rev. 0                 | 25.5                  | 25.18         | -0.02                | 10 mm     | 8                                    | -                    | 05258           | N/A        | 1:1     | right           | 0.223          | 1.076                    | 0.240 |     |
| 1880.00                                  | 600  | PCS CDMA   | EVD0 Rev. 0                 | 22.5                  | 22.09         | 0.12                 | 10 mm     | N/A                                  | -                    | 05282           | N/A        | 1:1     | back            | 0.488          | 1.099                    | 0.536 |     |
| 1880.00                                  | 600  | PCS CDMA   | EVD0 Rev. 0                 | 22.5                  | 22.09         | 0.01                 | 10 mm     | N/A                                  | -                    | 05282           | N/A        | 1:1     | front           | 0.371          | 1.099                    | 0.408 |     |
| 1851.25                                  | 25   | PCS CDMA   | EVD0 Rev. 0                 | 22.5                  | 22.21         | -0.06                | 10 mm     | N/A                                  | -                    | 05282           | N/A        | 1:1     | bottom          | 0.727          | 1.069                    | 0.777 |     |
| 1880.00                                  | 600  | PCS CDMA   | EVD0 Rev. 0                 | 22.5                  | 22.09         | -0.06                | 10 mm     | N/A                                  | -                    | 05282           | N/A        | 1:1     | bottom          | 0.852          | 1.099                    | 0.936 |     |
| 1908.75                                  | 1175 | PCS CDMA   | EVD0 Rev. 0                 | 22.5                  | 22.37         | -0.03                | 10 mm     | N/A                                  | -                    | 05282           | N/A        | 1:1     | bottom          | 0.912          | 1.030                    | 0.939 | A30 |
| 1880.00                                  | 600  | PCS CDMA   | EVD0 Rev. 0                 | 22.5                  | 22.09         | -0.15                | 10 mm     | N/A                                  | -                    | 05282           | N/A        | 1:1     | left            | 0.146          | 1.099                    | 0.160 |     |
| 1880.00                                  | 600  | PCS CDMA   | EVD0 Rev. 0                 | 24.5                  | 24.08         | 0.02                 | 10 mm     | N/A                                  | #1                   | 05258           | N/A        | 1:1     | back            | 0.650          | 1.102                    | 0.716 |     |
| 1880.00                                  | 600  | PCS CDMA   | EVD0 Rev. 0                 | 24.5                  | 24.08         | 0.05                 | 10 mm     | N/A                                  | #3                   | 05258           | N/A        | 1:1     | front           | 0.577          | 1.102                    | 0.636 |     |
| 1851.25                                  | 25   | PCS CDMA   | EVD0 Rev. 0                 | 24.5                  | 23.92         | -0.03                | 10 mm     | N/A                                  | #1                   | 05258           | N/A        | 1:1     | bottom          | 0.705          | 1.143                    | 0.806 |     |
| 1880.00                                  | 600  | PCS CDMA   | EVD0 Rev. 0                 | 24.5                  | 24.08         | 0.01                 | 10 mm     | N/A                                  | #1                   | 05258           | N/A        | 1:1     | bottom          | 0.697          | 1.102                    | 0.768 |     |
| 1908.75                                  | 1175 | PCS CDMA   | EVD0 Rev. 0                 | 24.5                  | 23.92         | 0.04                 | 10 mm     | N/A                                  | #1                   | 05258           | N/A        | 1:1     | bottom          | 0.645          | 1.143                    | 0.737 |     |
| 1880.00                                  | 600  | PCS CDMA   | EVD0 Rev. 0                 | 24.5                  | 24.08         | 0.04                 | 10 mm     | N/A                                  | #1                   | 05258           | N/A        | 1:1     | left            | 0.039          | 1.102                    | 0.043 |     |
| 1908.75                                  | 1175 | PCS CDMA   | EVD0 Rev. 0                 | 22.5                  | 22.37         | -0.06                | 10 mm     | N/A                                  | -                    | 05282           | N/A        | 1:1     | bottom          | 0.902          | 1.030                    | 0.929 |     |
| 836.60                                   | 190  | GSM 850    | GPRS                        | 29.0                  | 28.43         | -0.11                | 10 mm     | N/A                                  | -                    | 05266           | 4          | 1.2.076 | back            | 0.500          | 1.140                    | 0.570 | A31 |
| 836.60                                   | 190  | GSM 850    | GPRS                        | 29.0                  | 28.43         | -0.14                | 10 mm     | N/A                                  | -                    | 05266           | 4          | 1.2.076 | front           | 0.383          | 1.140                    | 0.437 |     |
| 836.60                                   | 190  | GSM 850    | GPRS                        | 29.0                  | 28.43         | -0.12                | 10 mm     | N/A                                  | -                    | 05266           | 4          | 1.2.076 | bottom          | 0.226          | 1.140                    | 0.258 |     |
| 836.60                                   | 190  | GSM 850    | GPRS                        | 29.0                  | 28.43         | 0.09                 | 10 mm     | N/A                                  | -                    | 05266           | 4          | 1.2.076 | right           | 0.196          | 1.140                    | 0.223 |     |
| 1880.00                                  | 661  | GSM 1900   | GPRS                        | 28.0                  | 27.70         | -0.15                | 10 mm     | N/A                                  | -                    | 05290           | 3          | 1.2.76  | back            | 0.384          | 1.072                    | 0.412 |     |
| 1880.00                                  | 661  | GSM 1900   | GPRS                        | 28.0                  | 27.70         | -0.04                | 10 mm     | N/A                                  | -                    | 05290           | 3          | 1.2.76  | front           | 0.305          | 1.072                    | 0.327 |     |
| 1850.20                                  | 512  | GSM 1900   | GPRS                        | 28.0                  | 27.54         | -0.12                | 10 mm     | N/A                                  | -                    | 05290           | 3          | 1.2.76  | bottom          | 0.722          | 1.112                    | 0.802 |     |
| 1880.00                                  | 661  | GSM 1900   | GPRS                        | 28.0                  | 27.70         | -0.03                | 10 mm     | N/A                                  | -                    | 05290           | 3          | 1.2.76  | bottom          | 0.604          | 1.072                    | 0.647 |     |
| 1909.80                                  | 810  | GSM 1900   | GPRS                        | 28.0                  | 27.35         | -0.09                | 10 mm     | N/A                                  | -                    | 05290           | 3          | 1.2.76  | bottom          | 0.774          | 1.161                    | 0.899 | A33 |
| 1880.00                                  | 661  | GSM 1900   | GPRS                        | 28.0                  | 27.70         | -0.19                | 10 mm     | N/A                                  | -                    | 05290           | 3          | 1.2.76  | left            | 0.144          | 1.072                    | 0.154 |     |
| 836.60                                   | 4183 | UMTS 850   | RMC                         | 25.5                  | 25.04         | -0.01                | 10 mm     | 8                                    | -                    | 05266           | N/A        | 1:1     | back            | 0.520          | 1.112                    | 0.578 | A34 |
| 836.60                                   | 4183 | UMTS 850   | RMC                         | 25.5                  | 25.04         | 0.00                 | 10 mm     | 8                                    | -                    | 05266           | N/A        | 1:1     | front           | 0.462          | 1.112                    | 0.514 |     |
| 836.60                                   | 4183 | UMTS 850   | RMC                         | 25.5                  | 25.04         | 0.00                 | 10 mm     | 8                                    | -                    | 05266           | N/A        | 1:1     | bottom          | 0.247          | 1.112                    | 0.275 |     |
| 836.60                                   | 4183 | UMTS 850   | RMC                         | 25.5                  | 25.04         | -0.06                | 10 mm     | 8                                    | -                    | 05266           | N/A        | 1:1     | right           | 0.206          | 1.112                    | 0.229 |     |
| 1732.40                                  | 1412 | UMTS 1750  | RMC                         | 22.5                  | 22.43         | -0.03                | 10 mm     | N/A                                  | -                    | 05282           | N/A        | 1:1     | back            | 0.375          | 1.016                    | 0.381 |     |
| 1732.40                                  | 1412 | UMTS 1750  | RMC                         | 22.5                  | 22.43         | -0.02                | 10 mm     | N/A                                  | -                    | 05282           | N/A        | 1:1     | front           | 0.306          | 1.016                    | 0.311 |     |
| 1732.40                                  | 1412 | UMTS 1750  | RMC                         | 22.5                  | 22.43         | -0.02                | 10 mm     | N/A                                  | -                    | 05282           | N/A        | 1:1     | bottom          | 0.573          | 1.016                    | 0.582 |     |
| 1732.40                                  | 1412 | UMTS 1750  | RMC                         | 22.5                  | 22.43         | 0.03                 | 10 mm     | N/A                                  | -                    | 05282           | N/A        | 1:1     | left            | 0.109          | 1.016                    | 0.111 |     |
| 1732.40                                  | 1412 | UMTS 1750  | RMC                         | 24.5                  | 24.22         | 0.00                 | 10 mm     | N/A                                  | #1                   | 05258           | N/A        | 1:1     | back            | 0.643          | 1.067                    | 0.686 |     |
| 1732.40                                  | 1412 | UMTS 1750  | RMC                         | 24.5                  | 24.22         | 0.07                 | 10 mm     | N/A                                  | #3                   | 05258           | N/A        | 1:1     | front           | 0.637          | 1.067                    | 0.680 |     |
| 1712.40                                  | 1312 | UMTS 1750  | RMC                         | 24.5                  | 24.20         | 0.00                 | 10 mm     | N/A                                  | #1                   | 05258           | N/A        | 1:1     | bottom          | 0.587          | 1.072                    | 0.629 |     |
| 1732.40                                  | 1412 | UMTS 1750  | RMC                         | 24.5                  | 24.22         | -0.03                | 10 mm     | N/A                                  | #1                   | 05258           | N/A        | 1:1     | bottom          | 0.694          | 1.067                    | 0.740 |     |
| 1752.60                                  | 1513 | UMTS 1750  | RMC                         | 24.5                  | 24.21         | -0.01                | 10 mm     | N/A                                  | #1                   | 05258           | N/A        | 1:1     | bottom          | 0.743          | 1.069                    | 0.794 | A36 |
| 1732.40                                  | 1412 | UMTS 1750  | RMC                         | 24.5                  | 24.22         | 0.01                 | 10 mm     | N/A                                  | #1                   | 05258           | N/A        | 1:1     | left            | 0.087          | 1.067                    | 0.093 |     |
| 1880.00                                  | 9400 | UMTS 1900  | RMC                         | 22.5                  | 22.44         | 0.01                 | 10 mm     | N/A                                  | -                    | 05258           | N/A        | 1:1     | back            | 0.463          | 1.014                    | 0.469 |     |
| 1880.00                                  | 9400 | UMTS 1900  | RMC                         | 22.5                  | 22.44         | -0.06                | 10 mm     | N/A                                  | -                    | 05258           | N/A        | 1:1     | front           | 0.335          | 1.014                    | 0.340 |     |
| 1852.40                                  | 9262 | UMTS 1900  | RMC                         | 22.5                  | 22.42         | -0.07                | 10 mm     | N/A                                  | -                    | 05258           | N/A        | 1:1     | bottom          | 0.653          | 1.019                    | 0.665 |     |
| 1880.00                                  | 9400 | UMTS 1900  | RMC                         | 22.5                  | 22.44         | -0.06                | 10 mm     | N/A                                  | -                    | 05258           | N/A        | 1:1     | bottom          | 0.694          | 1.014                    | 0.704 |     |
| 1907.60                                  | 9538 | UMTS 1900  | RMC                         | 22.5                  | 22.50         | -0.07                | 10 mm     | N/A                                  | -                    | 05258           | N/A        | 1:1     | bottom          | 0.738          | 1.000                    | 0.738 |     |
| 1880.00                                  | 9400 | UMTS 1900  | RMC                         | 22.5                  | 22.44         | -0.01                | 10 mm     | N/A                                  | -                    | 05258           | N/A        | 1:1     | left            | 0.120          | 1.014                    | 0.122 |     |
| 1852.40                                  | 9262 | UMTS 1900  | RMC                         | 24.5                  | 24.24         | 0.02                 | 10 mm     | N/A                                  | #1                   | 05258           | N/A        | 1:1     | back            | 0.803          | 1.062                    | 0.853 |     |
| 1880.00                                  | 9400 | UMTS 1900  | RMC                         | 24.5                  | 24.16         | 0.08                 | 10 mm     | N/A                                  | #1                   | 05258           | N/A        | 1:1     | back            | 0.779          | 1.081                    | 0.842 |     |
| 1907.60                                  | 9538 | UMTS 1900  | RMC                         | 24.5                  | 24.05         | 0.04                 | 10 mm     | N/A                                  | #1                   | 05258           | N/A        | 1:1     | back            | 0.748          | 1.109                    | 0.830 |     |
| 1852.40                                  | 9262 | UMTS 1900  | RMC                         | 24.5                  | 24.24         | -0.06                | 10 mm     | N/A                                  | #3                   | 05258           | N/A        | 1:1     | front           | 0.862          | 1.062                    | 0.915 | A38 |
| 1880.00                                  | 9400 | UMTS 1900  | RMC                         | 24.5                  | 24.16         | -0.04                | 10 mm     | N/A                                  | #3                   | 05258           | N/A        | 1:1     | front           | 0.839          | 1.081                    | 0.907 |     |
| 1907.60                                  | 9538 | UMTS 1900  | RMC                         | 24.5                  | 24.05         | -0.06                | 10 mm     | N/A                                  | #3                   | 05258           | N/A        | 1:1     | front           | 0.753          | 1.109                    | 0.835 |     |
| 1852.40                                  | 9262 | UMTS 1900  | RMC                         | 24.5                  | 24.24         | 0.15                 | 10 mm     | N/A                                  | #1                   | 05258           | N/A        | 1:1     | bottom          | 0.838          | 1.062                    | 0.890 |     |
| 1880.00                                  | 9400 | UMTS 1900  | RMC                         | 24.5                  | 24.16         | 0.16                 | 10 mm     | N/A                                  | #1                   | 05258           | N/A        | 1:1     | bottom          | 0.772          | 1.081                    | 0.835 |     |
| 1907.60                                  | 9538 | UMTS 1900  | RMC                         | 24.5                  | 24.05         | 0.16                 | 10 mm     | N/A                                  | #1                   | 05258           | N/A        | 1:1     | bottom          | 0.680          | 1.109                    | 0.754 |     |
| 1880.00                                  | 9400 | UMTS 1900  | RMC                         | 24.5                  | 24.16         | 0.09                 | 10 mm     | N/A                                  | #1                   | 05258           | N/A        | 1:1     | left            | 0.094          | 1.081                    | 0.102 |     |
| 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: 1) Blue entry represents variability measurement. 2) Green entries represent additional Hotspot SAR Position (DD #1: 0 degrees) 3) Light orange entries represent additional Hotspot SAR Position (DD #3: 360 degrees)

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 - 06/25/20                                                  | DUT Type:<br>Portable Handset |                                                                                       | Page 161 of 224                 |

**Table 11-35**  
**LTE Band 71 Hotspot SAR**

| MEASUREMENT RESULTS                                   |        |      |                 |                             |                       |                  |          |                                                 |                      |            |         |           |         |       |            |          |                |                   |        |     |
|-------------------------------------------------------|--------|------|-----------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------------|----------------------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                             |        | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Ant 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                          | 25.5                  | 25.40            | -0.03    | 0                                               | 30                   | 05266      | QPSK    | 1         | 50      | 10 mm | back       | 1:1      | 0.356          | 1.023             | 0.364  | A39 |
| 680.50                                                | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 24.47            | -0.04    | 1                                               | 30                   | 05266      | QPSK    | 50        | 0       | 10 mm | back       | 1:1      | 0.281          | 1.007             | 0.283  |     |
| 680.50                                                | 133297 | Mid  | LTE Band 71     | 20                          | 25.5                  | 25.40            | -0.04    | 0                                               | 30                   | 05266      | QPSK    | 1         | 50      | 10 mm | front      | 1:1      | 0.278          | 1.023             | 0.284  |     |
| 680.50                                                | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 24.47            | -0.02    | 1                                               | 30                   | 05266      | QPSK    | 50        | 0       | 10 mm | front      | 1:1      | 0.209          | 1.007             | 0.210  |     |
| 680.50                                                | 133297 | Mid  | LTE Band 71     | 20                          | 25.5                  | 25.40            | -0.04    | 0                                               | 30                   | 05266      | QPSK    | 1         | 50      | 10 mm | bottom     | 1:1      | 0.130          | 1.023             | 0.133  |     |
| 680.50                                                | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 24.47            | -0.04    | 1                                               | 30                   | 05266      | QPSK    | 50        | 0       | 10 mm | bottom     | 1:1      | 0.104          | 1.007             | 0.105  |     |
| 680.50                                                | 133297 | Mid  | LTE Band 71     | 20                          | 25.5                  | 25.40            | -0.02    | 0                                               | 30                   | 05266      | QPSK    | 1         | 50      | 10 mm | right      | 1:1      | 0.272          | 1.023             | 0.278  |     |
| 680.50                                                | 133297 | Mid  | LTE Band 71     | 20                          | 24.5                  | 24.47            | 0.01     | 1                                               | 30                   | 05266      | QPSK    | 50        | 0       | 10 mm | right      | 1:1      | 0.220          | 1.007             | 0.222  |     |
| 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 11-36**  
**LTE Band 12 Hotspot SAR**

| MEASUREMENT RESULTS                      |       |      |                 |                             |                       |                  |          |                      |                      |            |         |           |         |       |            |          |                |                   |        |     |
|------------------------------------------|-------|------|-----------------|-----------------------------|-----------------------|------------------|----------|----------------------|----------------------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                |       | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Ant 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                                   | 23095 | Mid  | LTE Band 12     | 10                          | 25.5                  | 25.31            | -0.01    | 0                    | 19                   | 05266      | QPSK    | 1         | 49      | 10 mm | back       | 1:1      | 0.376          | 1.045             | 0.393  | A40 |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 24.5                  | 24.34            | -0.14    | 1                    | 19                   | 05266      | QPSK    | 25        | 25      | 10 mm | back       | 1:1      | 0.305          | 1.038             | 0.317  |     |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 25.5                  | 25.31            | 0.11     | 0                    | 19                   | 05266      | QPSK    | 1         | 49      | 10 mm | front      | 1:1      | 0.306          | 1.045             | 0.320  |     |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 24.5                  | 24.34            | 0.03     | 1                    | 19                   | 05266      | QPSK    | 25        | 25      | 10 mm | front      | 1:1      | 0.251          | 1.038             | 0.261  |     |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 25.5                  | 25.31            | 0.02     | 0                    | 19                   | 05266      | QPSK    | 1         | 49      | 10 mm | bottom     | 1:1      | 0.154          | 1.045             | 0.161  |     |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 24.5                  | 24.34            | -0.03    | 1                    | 19                   | 05266      | QPSK    | 25        | 25      | 10 mm | bottom     | 1:1      | 0.129          | 1.038             | 0.134  |     |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 25.5                  | 25.31            | 0.11     | 0                    | 19                   | 05266      | QPSK    | 1         | 49      | 10 mm | right      | 1:1      | 0.219          | 1.045             | 0.229  |     |
| 707.50                                   | 23095 | Mid  | LTE Band 12     | 10                          | 24.5                  | 24.34            | -0.01    | 1                    | 19                   | 05266      | QPSK    | 25        | 25      | 10 mm | right      | 1:1      | 0.177          | 1.038             | 0.184  |     |
| 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 11-37**  
**LTE Band 13 Hotspot SAR**

| MEASUREMENT RESULTS                                                                               |       |      |                 |                             |                       |                  |          |                                                 |                      |            |         |           |         |       |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|-------|------|-----------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------------|----------------------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |       | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Ant 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                          | 25.5                  | 25.33            | 0.11     | 0                                               | 14                   | 05266      | QPSK    | 1         | 25      | 10 mm | back       | 1:1      | 0.411          | 1.040             | 0.427  | A41 |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 24.5                  | 24.33            | -0.01    | 1                                               | 14                   | 05266      | QPSK    | 25        | 25      | 10 mm | back       | 1:1      | 0.333          | 1.040             | 0.346  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 25.5                  | 25.33            | 0.01     | 0                                               | 14                   | 05266      | QPSK    | 1         | 25      | 10 mm | front      | 1:1      | 0.347          | 1.040             | 0.361  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 24.5                  | 24.33            | 0.02     | 1                                               | 14                   | 05266      | QPSK    | 25        | 25      | 10 mm | front      | 1:1      | 0.284          | 1.040             | 0.295  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 25.5                  | 25.33            | -0.21    | 0                                               | 14                   | 05266      | QPSK    | 1         | 25      | 10 mm | bottom     | 1:1      | 0.195          | 1.040             | 0.203  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 24.5                  | 24.33            | -0.11    | 1                                               | 14                   | 05266      | QPSK    | 25        | 25      | 10 mm | bottom     | 1:1      | 0.156          | 1.040             | 0.162  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 25.5                  | 25.33            | 0.02     | 0                                               | 14                   | 05266      | QPSK    | 1         | 25      | 10 mm | right      | 1:1      | 0.133          | 1.040             | 0.138  |     |
| 782.00                                                                                            | 23230 | Mid  | LTE Band 13     | 10                          | 24.5                  | 24.33            | 0.03     | 1                                               | 14                   | 05266      | QPSK    | 25        | 25      | 10 mm | right      | 1:1      | 0.108          | 1.040             | 0.112  |     |
| 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: ZNFG900UM                       |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                  | DUT Type:<br>Portable Handset |                                                                                       | Page 162 of 224                 |

**Table 11-38**  
**LTE Band 14 Hotspot SAR**

| MEASUREMENT RESULTS                                                                               |       |      |                 |                             |                       |                  |          |                                                 |                      |            |         |           |         |       |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|-------|------|-----------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------------|----------------------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |       | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Ant 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                          | 25.5                  | 25.33            | 0.02     | 0                                               | 13                   | 05266      | QPSK    | 1         | 0       | 10 mm | back       | 1:1      | 0.411          | 1.040             | 0.427  | A42 |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 24.5                  | 24.26            | 0.01     | 1                                               | 13                   | 05266      | QPSK    | 25        | 12      | 10 mm | back       | 1:1      | 0.321          | 1.057             | 0.339  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 25.5                  | 25.33            | 0.03     | 0                                               | 13                   | 05266      | QPSK    | 1         | 0       | 10 mm | front      | 1:1      | 0.326          | 1.040             | 0.339  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 24.5                  | 24.26            | 0.03     | 1                                               | 13                   | 05266      | QPSK    | 25        | 12      | 10 mm | front      | 1:1      | 0.267          | 1.057             | 0.282  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 25.5                  | 25.33            | -0.01    | 0                                               | 13                   | 05266      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1      | 0.186          | 1.040             | 0.193  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 24.5                  | 24.26            | 0.10     | 1                                               | 13                   | 05266      | QPSK    | 25        | 12      | 10 mm | bottom     | 1:1      | 0.145          | 1.057             | 0.153  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 25.5                  | 25.33            | -0.09    | 0                                               | 13                   | 05266      | QPSK    | 1         | 0       | 10 mm | right      | 1:1      | 0.102          | 1.040             | 0.106  |     |
| 793.00                                                                                            | 23330 | Mid  | LTE Band 14     | 10                          | 24.5                  | 24.26            | -0.11    | 1                                               | 13                   | 05266      | QPSK    | 25        | 12      | 10 mm | right      | 1:1      | 0.090          | 1.057             | 0.095  |     |
| 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 11-39**  
**LTE Band 5 (Cell) 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] | Ant 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               | 836.50    | 20525 | Mid  | LTE Band 5 (Cell) | 10                          | 25.5                  | 24.97            | -0.08    | 0         | 8                                               | 05266      | QPSK    | 1         | 49      | 10 mm | back       | 1:1      | 0.542          | 1.130             | 0.612  |     |
| 1 CC Uplink                                                                                       | N/A               | 836.50    | 20525 | Mid  | LTE Band 5 (Cell) | 10                          | 24.5                  | 23.98            | -0.02    | 1         | 8                                               | 05266      | QPSK    | 25        | 25      | 10 mm | back       | 1:1      | 0.441          | 1.127             | 0.497  |     |
| 2 CC Uplink                                                                                       | PCC               | 836.50    | 20525 | Mid  | LTE Band 5 (Cell) | 10                          | 25.5                  | 25.14            | -0.06    | 0         | 8                                               | 05266      | QPSK    | 1         | 49      | 10 mm | back       | 1:1      | 0.560          | 1.086             | 0.608  | A43 |
|                                                                                                   | SCC               | 843.70    | 20597 | Mid  |                   | 5                           |                       |                  |          |           |                                                 |            |         | 1         | 0       |       |            |          |                |                   |        |     |
| 1 CC Uplink                                                                                       | N/A               | 836.50    | 20525 | Mid  | LTE Band 5 (Cell) | 10                          | 25.5                  | 24.97            | 0.03     | 0         | 8                                               | 05266      | QPSK    | 1         | 49      | 10 mm | front      | 1:1      | 0.453          | 1.130             | 0.512  |     |
| 1 CC Uplink                                                                                       | N/A               | 836.50    | 20525 | Mid  | LTE Band 5 (Cell) | 10                          | 24.5                  | 23.98            | 0.03     | 1         | 8                                               | 05266      | QPSK    | 25        | 25      | 10 mm | front      | 1:1      | 0.370          | 1.127             | 0.417  |     |
| 1 CC Uplink                                                                                       | N/A               | 836.50    | 20525 | Mid  | LTE Band 5 (Cell) | 10                          | 25.5                  | 24.97            | 0.03     | 0         | 8                                               | 05266      | QPSK    | 1         | 49      | 10 mm | bottom     | 1:1      | 0.239          | 1.130             | 0.270  |     |
| 1 CC Uplink                                                                                       | N/A               | 836.50    | 20525 | Mid  | LTE Band 5 (Cell) | 10                          | 24.5                  | 23.98            | 0.03     | 1         | 8                                               | 05266      | QPSK    | 25        | 25      | 10 mm | bottom     | 1:1      | 0.196          | 1.127             | 0.221  |     |
| 1 CC Uplink                                                                                       | N/A               | 836.50    | 20525 | Mid  | LTE Band 5 (Cell) | 10                          | 25.5                  | 24.97            | 0.04     | 0         | 8                                               | 05266      | QPSK    | 1         | 49      | 10 mm | right      | 1:1      | 0.201          | 1.130             | 0.227  |     |
| 1 CC Uplink                                                                                       | N/A               | 836.50    | 20525 | Mid  | LTE Band 5 (Cell) | 10                          | 24.5                  | 23.98            | 0.00     | 1         | 8                                               | 05266      | QPSK    | 25        | 25      | 10 mm | right      | 1:1      | 0.158          | 1.127             | 0.178  |     |
| 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: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset |                                                                                       | Page 163 of 224                 |

**Table 11-40**  
**LTE Band 66 (AWS) Hotspot SAR**

| MEASUREMENT RESULTS                      |        |        |                   |                 |                                      |                             |                       |                  |          |                      |                      |            |         |           |         |        |            |          |                |                   |        |
|------------------------------------------|--------|--------|-------------------|-----------------|--------------------------------------|-----------------------------|-----------------------|------------------|----------|----------------------|----------------------|------------|---------|-----------|---------|--------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                |        |        | Mode              | Bandwidth [MHz] | Dual Display Accessory Configuration | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Ant                  | 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)   |                |                   |        |
| 1770.00                                  | 132572 | High   | LTE Band 66 (AWS) | 20              | -                                    | 22.5                        | 21.84                 | -0.06            | 0        | Ant 2                | 05282                | QPSK       | 1       | 0         | 10 mm   | back   | 1:1        | 0.375    | 1.164          | 0.437             |        |
| 1770.00                                  | 132572 | High   | LTE Band 66 (AWS) | 20              | -                                    | 22.5                        | 21.76                 | -0.08            | 0        | Ant 2                | 05282                | QPSK       | 50      | 0         | 10 mm   | back   | 1:1        | 0.381    | 1.186          | 0.452             |        |
| 1770.00                                  | 132572 | High   | LTE Band 66 (AWS) | 20              | -                                    | 22.5                        | 21.84                 | 0.11             | 0        | Ant 2                | 05282                | QPSK       | 1       | 0         | 10 mm   | front  | 1:1        | 0.322    | 1.164          | 0.375             |        |
| 1770.00                                  | 132572 | High   | LTE Band 66 (AWS) | 20              | -                                    | 22.5                        | 21.76                 | 0.09             | 0        | Ant 2                | 05282                | QPSK       | 50      | 0         | 10 mm   | front  | 1:1        | 0.326    | 1.186          | 0.387             |        |
| 1770.00                                  | 132572 | High   | LTE Band 66 (AWS) | 20              | -                                    | 22.5                        | 21.84                 | 0.01             | 0        | Ant 2                | 05282                | QPSK       | 1       | 0         | 10 mm   | bottom | 1:1        | 0.635    | 1.164          | 0.739             |        |
| 1720.00                                  | 132072 | Low    | LTE Band 66 (AWS) | 20              | -                                    | 22.5                        | 21.72                 | 0.02             | 0        | Ant 2                | 05282                | QPSK       | 50      | 25        | 10 mm   | bottom | 1:1        | 0.496    | 1.197          | 0.594             |        |
| 1745.00                                  | 132322 | Mid    | LTE Band 66 (AWS) | 20              | -                                    | 22.5                        | 21.74                 | -0.01            | 0        | Ant 2                | 05282                | QPSK       | 50      | 25        | 10 mm   | bottom | 1:1        | 0.566    | 1.191          | 0.674             |        |
| 1770.00                                  | 132572 | High   | LTE Band 66 (AWS) | 20              | -                                    | 22.5                        | 21.76                 | -0.03            | 0        | Ant 2                | 05282                | QPSK       | 50      | 0         | 10 mm   | bottom | 1:1        | 0.627    | 1.186          | 0.744             |        |
| 1770.00                                  | 132572 | High   | LTE Band 66 (AWS) | 20              | -                                    | 22.5                        | 21.84                 | 0.04             | 0        | Ant 2                | 05282                | QPSK       | 1       | 0         | 10 mm   | left   | 1:1        | 0.116    | 1.164          | 0.135             |        |
| 1770.00                                  | 132572 | High   | LTE Band 66 (AWS) | 20              | -                                    | 22.5                        | 21.76                 | 0.01             | 0        | Ant 2                | 05282                | QPSK       | 50      | 0         | 10 mm   | left   | 1:1        | 0.115    | 1.186          | 0.136             |        |
| 1720.00                                  | 132072 | Low    | LTE Band 66 (AWS) | 20              | -                                    | 17.7                        | 17.16                 | -0.04            | 0        | Ant 3                | 05258                | QPSK       | 1       | 0         | 10 mm   | back   | 1:1        | 0.061    | 1.132          | 0.069             |        |
| 1720.00                                  | 132072 | Low    | LTE Band 66 (AWS) | 20              | -                                    | 17.7                        | 17.27                 | 0.06             | 0        | Ant 3                | 05258                | QPSK       | 50      | 25        | 10 mm   | back   | 1:1        | 0.071    | 1.104          | 0.078             |        |
| 1720.00                                  | 132072 | Low    | LTE Band 66 (AWS) | 20              | -                                    | 17.7                        | 17.16                 | 0.09             | 0        | Ant 3                | 05258                | QPSK       | 1       | 0         | 10 mm   | front  | 1:1        | 0.046    | 1.132          | 0.052             |        |
| 1720.00                                  | 132072 | Low    | LTE Band 66 (AWS) | 20              | -                                    | 17.7                        | 17.27                 | 0.12             | 0        | Ant 3                | 05258                | QPSK       | 50      | 25        | 10 mm   | front  | 1:1        | 0.054    | 1.104          | 0.060             |        |
| 1720.00                                  | 132072 | Low    | LTE Band 66 (AWS) | 20              | -                                    | 17.7                        | 17.16                 | -0.07            | 0        | Ant 3                | 05258                | QPSK       | 1       | 0         | 10 mm   | right  | 1:1        | 0.106    | 1.132          | 0.120             |        |
| 1720.00                                  | 132072 | Low    | LTE Band 66 (AWS) | 20              | -                                    | 17.7                        | 17.27                 | -0.07            | 0        | Ant 3                | 05258                | QPSK       | 50      | 25        | 10 mm   | right  | 1:1        | 0.117    | 1.104          | 0.129             |        |
| 1770.00                                  | 132572 | High   | LTE Band 66 (AWS) | 20              | #1                                   | 24.5                        | 23.99                 | 0.07             | 0        | Ant 2                | 05266                | QPSK       | 1       | 0         | 10 mm   | back   | 1:1        | 0.650    | 1.125          | 0.731             |        |
| 1770.00                                  | 132572 | High   | LTE Band 66 (AWS) | 20              | #3                                   | 24.5                        | 23.99                 | 0.02             | 0        | Ant 2                | 05266                | QPSK       | 1       | 0         | 10 mm   | front  | 1:1        | 0.639    | 1.125          | 0.719             |        |
| 1720.00                                  | 132072 | Low    | LTE Band 66 (AWS) | 20              | #1                                   | 24.5                        | 23.57                 | 0.01             | 0        | Ant 2                | 05266                | QPSK       | 1       | 99        | 10 mm   | bottom | 1:1        | 0.598    | 1.239          | 0.741             |        |
| 1745.00                                  | 132322 | Mid    | LTE Band 66 (AWS) | 20              | #1                                   | 24.5                        | 23.82                 | 0.00             | 0        | Ant 2                | 05266                | QPSK       | 1       | 50        | 10 mm   | bottom | 1:1        | 0.639    | 1.169          | 0.747             |        |
| 1770.00                                  | 132572 | High   | LTE Band 66 (AWS) | 20              | #1                                   | 24.5                        | 23.99                 | 0.00             | 0        | Ant 2                | 05266                | QPSK       | 1       | 0         | 10 mm   | bottom | 1:1        | 0.690    | 1.125          | 0.776             | A45    |
| 1770.00                                  | 132572 | High   | LTE Band 66 (AWS) | 20              | #1                                   | 24.5                        | 23.99                 | 0.03             | 0        | Ant 2                | 05266                | QPSK       | 1       | 0         | 10 mm   | left   | 1:1        | 0.073    | 1.125          | 0.082             |        |
| 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: 1) Green entries represent additional Hotspot SAR Position (DD #1: 0 degrees) Light orange entries represent additional Hotspot SAR Position (DD #3: 360 degrees)

**Table 11-41**  
**LTE Band 2 (PCS) Hotspot SAR – Ant 3**

| MEASUREMENT RESULTS                                                                               |       |      |                  |                             |                       |                  |          |                                                 |                      |            |         |           |         |       |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|-------|------|------------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------------|----------------------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |       | Mode | Bandwidth [MHz]  | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Ant                                             | 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                                                                                           | 18700 | Low  | LTE Band 2 (PCS) | 20                          | 17.7                  | 17.47            | -0.06    | 0                                               | Ant 3                | 05258      | QPSK    | 1         | 0       | 10 mm | back       | 1:1      | 0.115          | 1.054             | 0.121  |     |
| 1860.00                                                                                           | 18700 | Low  | LTE Band 2 (PCS) | 20                          | 17.7                  | 17.53            | -0.10    | 0                                               | Ant 3                | 05258      | QPSK    | 50        | 25      | 10 mm | back       | 1:1      | 0.118          | 1.040             | 0.123  |     |
| 1860.00                                                                                           | 18700 | Low  | LTE Band 2 (PCS) | 20                          | 17.7                  | 17.47            | -0.17    | 0                                               | Ant 3                | 05258      | QPSK    | 1         | 0       | 10 mm | front      | 1:1      | 0.100          | 1.054             | 0.105  |     |
| 1860.00                                                                                           | 18700 | Low  | LTE Band 2 (PCS) | 20                          | 17.7                  | 17.53            | -0.17    | 0                                               | Ant 3                | 05258      | QPSK    | 50        | 25      | 10 mm | front      | 1:1      | 0.100          | 1.040             | 0.104  |     |
| 1860.00                                                                                           | 18700 | Low  | LTE Band 2 (PCS) | 20                          | 17.7                  | 17.47            | -0.07    | 0                                               | Ant 3                | 05258      | QPSK    | 1         | 0       | 10 mm | right      | 1:1      | 0.259          | 1.054             | 0.273  |     |
| 1860.00                                                                                           | 18700 | Low  | LTE Band 2 (PCS) | 20                          | 17.7                  | 17.53            | 0.04     | 0                                               | Ant 3                | 05258      | QPSK    | 50        | 25      | 10 mm | right      | 1:1      | 0.270          | 1.040             | 0.281  | A47 |
| 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: ZNFG900UM                       |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                  | DUT Type:<br>Portable Handset |                                                                                       | Page 164 of 224                 |

**Table 11-42**  
**LTE Band 25 (PCS) Hotspot SAR**

| MEASUREMENT RESULTS                                                                               |       |      |                   |                 |                                      |                             |                       |                  |          |                                                 |            |         |           |         |        |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|-------|------|-------------------|-----------------|--------------------------------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------------|------------|---------|-----------|---------|--------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |       |      | Mode              | Bandwidth [MHz] | Dual Display Accessory Configuration | 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)            |        |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20              | -                                    | 22.5                        | 21.89                 | 0.07             | 0        | 05282                                           | QPSK       | 1       | 0         | 10 mm   | back   | 1:1        | 0.437    | 1.151          | 0.503             |        |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20              | -                                    | 22.5                        | 21.98                 | 0.13             | 0        | 05282                                           | QPSK       | 50      | 25        | 10 mm   | back   | 1:1        | 0.447    | 1.127          | 0.504             |        |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20              | -                                    | 22.5                        | 21.89                 | -0.03            | 0        | 05282                                           | QPSK       | 1       | 0         | 10 mm   | front  | 1:1        | 0.311    | 1.151          | 0.358             |        |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20              | -                                    | 22.5                        | 21.98                 | 0.01             | 0        | 05282                                           | QPSK       | 50      | 25        | 10 mm   | front  | 1:1        | 0.309    | 1.127          | 0.348             |        |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20              | -                                    | 22.5                        | 21.89                 | -0.07            | 0        | 05282                                           | QPSK       | 1       | 0         | 10 mm   | bottom | 1:1        | 0.701    | 1.151          | 0.807             |        |
| 1882.50                                                                                           | 26365 | Mid  | LTE Band 25 (PCS) | 20              | -                                    | 22.5                        | 21.78                 | 0.05             | 0        | 05282                                           | QPSK       | 1       | 0         | 10 mm   | bottom | 1:1        | 0.766    | 1.180          | 0.904             |        |
| 1905.00                                                                                           | 26590 | High | LTE Band 25 (PCS) | 20              | -                                    | 22.5                        | 21.79                 | -0.04            | 0        | 05282                                           | QPSK       | 1       | 0         | 10 mm   | bottom | 1:1        | 0.797    | 1.178          | 0.939             |        |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20              | -                                    | 22.5                        | 21.98                 | -0.03            | 0        | 05282                                           | QPSK       | 50      | 25        | 10 mm   | bottom | 1:1        | 0.718    | 1.127          | 0.809             |        |
| 1882.50                                                                                           | 26365 | Mid  | LTE Band 25 (PCS) | 20              | -                                    | 22.5                        | 21.91                 | -0.01            | 0        | 05282                                           | QPSK       | 50      | 50        | 10 mm   | bottom | 1:1        | 0.820    | 1.146          | 0.940             |        |
| 1905.00                                                                                           | 26590 | High | LTE Band 25 (PCS) | 20              | -                                    | 22.5                        | 21.83                 | -0.02            | 0        | 05282                                           | QPSK       | 50      | 50        | 10 mm   | bottom | 1:1        | 0.846    | 1.167          | 0.987             | A49    |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20              | -                                    | 22.5                        | 21.81                 | 0.00             | 0        | 05282                                           | QPSK       | 100     | 0         | 10 mm   | bottom | 1:1        | 0.704    | 1.172          | 0.825             |        |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20              | -                                    | 22.5                        | 21.89                 | -0.05            | 0        | 05282                                           | QPSK       | 1       | 0         | 10 mm   | left   | 1:1        | 0.129    | 1.151          | 0.148             |        |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20              | -                                    | 22.5                        | 21.98                 | 0.01             | 0        | 05282                                           | QPSK       | 50      | 25        | 10 mm   | left   | 1:1        | 0.132    | 1.127          | 0.149             |        |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20              | #1                                   | 24.5                        | 23.86                 | 0.10             | 0        | 05282                                           | QPSK       | 1       | 50        | 10 mm   | back   | 1:1        | 0.716    | 1.159          | 0.830             |        |
| 1882.50                                                                                           | 26365 | Mid  | LTE Band 25 (PCS) | 20              | #1                                   | 24.5                        | 23.69                 | 0.14             | 0        | 05282                                           | QPSK       | 1       | 99        | 10 mm   | back   | 1:1        | 0.710    | 1.205          | 0.856             |        |
| 1905.00                                                                                           | 26590 | High | LTE Band 25 (PCS) | 20              | #1                                   | 24.5                        | 23.67                 | 0.16             | 0        | 05282                                           | QPSK       | 1       | 0         | 10 mm   | back   | 1:1        | 0.720    | 1.211          | 0.872             |        |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20              | #3                                   | 24.5                        | 23.86                 | 0.02             | 0        | 05282                                           | QPSK       | 1       | 50        | 10 mm   | front  | 1:1        | 0.528    | 1.159          | 0.612             |        |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20              | #1                                   | 24.5                        | 23.86                 | 0.06             | 0        | 05282                                           | QPSK       | 1       | 50        | 10 mm   | bottom | 1:1        | 0.675    | 1.159          | 0.782             |        |
| 1860.00                                                                                           | 26140 | Low  | LTE Band 25 (PCS) | 20              | #1                                   | 24.5                        | 23.86                 | 0.06             | 0        | 05282                                           | QPSK       | 1       | 50        | 10 mm   | left   | 1:1        | 0.070    | 1.159          | 0.081             |        |
| 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: 1) Green entries represent additional Hotspot SAR Position (DD #1: 0 degrees) Light orange entries represent additional Hotspot SAR Position (DD #3: 360 degrees)

**Table 11-43**  
**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                          | 23.0                  | 22.42            | -0.05    | 0                                               | 05258      | QPSK    | 1         | 0       | 10 mm | back       | 1:1      | 0.533          | 1.143             | 0.609  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 22.0                  | 21.56            | -0.01    | 1                                               | 05258      | QPSK    | 25        | 12      | 10 mm | back       | 1:1      | 0.417          | 1.107             | 0.462  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 23.0                  | 22.42            | -0.02    | 0                                               | 05258      | QPSK    | 1         | 0       | 10 mm | front      | 1:1      | 0.409          | 1.143             | 0.467  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 22.0                  | 21.56            | 0.01     | 1                                               | 05258      | QPSK    | 25        | 12      | 10 mm | front      | 1:1      | 0.325          | 1.107             | 0.360  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 23.0                  | 22.42            | -0.03    | 0                                               | 05258      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1      | 0.813          | 1.143             | 0.929  | A51 |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 22.0                  | 21.56            | -0.08    | 1                                               | 05258      | QPSK    | 25        | 12      | 10 mm | bottom     | 1:1      | 0.653          | 1.107             | 0.723  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 22.0                  | 21.45            | -0.07    | 1                                               | 05258      | QPSK    | 50        | 0       | 10 mm | bottom     | 1:1      | 0.640          | 1.135             | 0.726  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 23.0                  | 22.42            | -0.02    | 0                                               | 05258      | QPSK    | 1         | 0       | 10 mm | left       | 1:1      | 0.112          | 1.143             | 0.128  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 22.0                  | 21.56            | -0.06    | 1                                               | 05258      | QPSK    | 25        | 12      | 10 mm | left       | 1:1      | 0.087          | 1.107             | 0.096  |     |
| 2310.00                                                                                           | 27710 | Mid  | LTE Band 30     | 10                          | 23.0                  | 22.42            | -0.03    | 0                                               | 05258      | QPSK    | 1         | 0       | 10 mm | bottom     | 1:1      | 0.811          | 1.143             | 0.927  |     |
| 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: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset | Page 165 of 224                                                                                 |                                 |

**Table 11-44**  
**LTE Band 7 Hotspot SAR**

| MEASUREMENT RESULTS                                                                               |       |      |                 |                                      |                             |                       |                  |          |                                                 |            |         |           |         |        |            |          |                |                   |        |
|---------------------------------------------------------------------------------------------------|-------|------|-----------------|--------------------------------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------------|------------|---------|-----------|---------|--------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                                                                         |       | Mode | Bandwidth [MHz] | Dual Display Accessory Configuration | 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)            |        |
| 2560.00                                                                                           | 21350 | High | LTE Band 7      | -                                    | 23.5                        | 23.24                 | -0.02            | 0        | 05258                                           | QPSK       | 1       | 0         | 10 mm   | back   | 1:1        | 0.464    | 1.062          | 0.493             |        |
| 2560.00                                                                                           | 21350 | High | LTE Band 7      | -                                    | 23.5                        | 23.32                 | -0.07            | 0        | 05258                                           | QPSK       | 50      | 25        | 10 mm   | back   | 1:1        | 0.487    | 1.042          | 0.507             |        |
| 2560.00                                                                                           | 21350 | High | LTE Band 7      | -                                    | 23.5                        | 23.24                 | -0.02            | 0        | 05258                                           | QPSK       | 1       | 0         | 10 mm   | front  | 1:1        | 0.298    | 1.062          | 0.316             |        |
| 2560.00                                                                                           | 21350 | High | LTE Band 7      | -                                    | 23.5                        | 23.32                 | -0.01            | 0        | 05258                                           | QPSK       | 50      | 25        | 10 mm   | front  | 1:1        | 0.312    | 1.042          | 0.325             |        |
| 2560.00                                                                                           | 21350 | High | LTE Band 7      | -                                    | 23.5                        | 23.24                 | 0.02             | 0        | 05258                                           | QPSK       | 1       | 0         | 10 mm   | bottom | 1:1        | 0.674    | 1.062          | 0.716             |        |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | -                                    | 23.5                        | 23.24                 | -0.04            | 0        | 05258                                           | QPSK       | 50      | 25        | 10 mm   | bottom | 1:1        | 0.699    | 1.062          | 0.742             |        |
| 2535.00                                                                                           | 21100 | Mid  | LTE Band 7      | -                                    | 23.5                        | 22.73                 | -0.04            | 0        | 05258                                           | QPSK       | 50      | 50        | 10 mm   | bottom | 1:1        | 0.682    | 1.194          | 0.814             |        |
| 2560.00                                                                                           | 21350 | High | LTE Band 7      | -                                    | 23.5                        | 23.32                 | -0.07            | 0        | 05258                                           | QPSK       | 50      | 25        | 10 mm   | bottom | 1:1        | 0.709    | 1.042          | 0.739             | AS3    |
| 2560.00                                                                                           | 21350 | High | LTE Band 7      | -                                    | 23.5                        | 23.21                 | -0.05            | 0        | 05258                                           | QPSK       | 100     | 0         | 10 mm   | bottom | 1:1        | 0.685    | 1.069          | 0.732             |        |
| 2560.00                                                                                           | 21350 | High | LTE Band 7      | -                                    | 23.5                        | 23.24                 | -0.11            | 0        | 05258                                           | QPSK       | 1       | 0         | 10 mm   | left   | 1:1        | 0.109    | 1.062          | 0.116             |        |
| 2560.00                                                                                           | 21350 | High | LTE Band 7      | -                                    | 23.5                        | 23.32                 | 0.01             | 0        | 05258                                           | QPSK       | 50      | 25        | 10 mm   | left   | 1:1        | 0.116    | 1.042          | 0.121             |        |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | #1                                   | 24.5                        | 23.73                 | 0.04             | 0        | 05290                                           | QPSK       | 1       | 0         | 10 mm   | back   | 1:1        | 0.315    | 1.194          | 0.376             |        |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | #3                                   | 24.5                        | 23.73                 | 0.01             | 0        | 05290                                           | QPSK       | 1       | 0         | 10 mm   | front  | 1:1        | 0.264    | 1.194          | 0.315             |        |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | #1                                   | 24.5                        | 23.73                 | -0.02            | 0        | 05290                                           | QPSK       | 1       | 0         | 10 mm   | bottom | 1:1        | 0.282    | 1.194          | 0.337             |        |
| 2510.00                                                                                           | 20850 | Low  | LTE Band 7      | #1                                   | 24.5                        | 23.73                 | 0.09             | 0        | 05290                                           | QPSK       | 1       | 0         | 10 mm   | left   | 1:1        | 0.050    | 1.194          | 0.060             |        |
| 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: 1) Green entries represent additional Hotspot SAR Position (DD #1: 0 degrees) Light orange entries represent additional Hotspot SAR Position (DD #3: 360 degrees)

**Table 11-45**  
**LTE Band 41 Hotspot SAR**

| MEASUREMENT RESULTS                      |       |      |                 |                                      |                             |                       |                  |          |                                         |            |         |           |         |       |            |          |                |                   |        |     |
|------------------------------------------|-------|------|-----------------|--------------------------------------|-----------------------------|-----------------------|------------------|----------|-----------------------------------------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                |       | Mode | Bandwidth [MHz] | Dual Display Accessory Configuration | 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)            |        |     |
| 2680.00                                  | 41490 | High | LTE Band 41     | 20                                   | -                           | 25.0                  | 24.94            | -0.15    | 0                                       | 05258      | QPSK    | 1         | 50      | 10 mm | back       | 1:1.58   | 0.312          | 1.014             | 0.316  |     |
| 2680.00                                  | 41490 | High | LTE Band 41     | 20                                   | -                           | 24.5                  | 24.50            | -0.09    | 0.5                                     | 05258      | QPSK    | 50        | 25      | 10 mm | back       | 1:1.58   | 0.299          | 1.000             | 0.299  |     |
| 2680.00                                  | 41490 | High | LTE Band 41     | 20                                   | -                           | 25.0                  | 24.94            | -0.14    | 0                                       | 05258      | QPSK    | 1         | 50      | 10 mm | front      | 1:1.58   | 0.225          | 1.014             | 0.228  |     |
| 2680.00                                  | 41490 | High | LTE Band 41     | 20                                   | -                           | 24.5                  | 24.50            | 0.05     | 0.5                                     | 05258      | QPSK    | 50        | 25      | 10 mm | front      | 1:1.58   | 0.208          | 1.000             | 0.208  |     |
| 2680.00                                  | 41490 | High | LTE Band 41     | 20                                   | -                           | 25.0                  | 24.94            | -0.01    | 0                                       | 05258      | QPSK    | 1         | 50      | 10 mm | bottom     | 1:1.58   | 0.520          | 1.014             | 0.527  | A55 |
| 2680.00                                  | 41490 | High | LTE Band 41     | 20                                   | -                           | 24.5                  | 24.50            | 0.03     | 0.5                                     | 05258      | QPSK    | 50        | 25      | 10 mm | bottom     | 1:1.58   | 0.507          | 1.000             | 0.507  |     |
| 2680.00                                  | 41490 | High | LTE Band 41     | 20                                   | -                           | 25.0                  | 24.94            | -0.08    | 0                                       | 05258      | QPSK    | 1         | 50      | 10 mm | left       | 1:1.58   | 0.074          | 1.014             | 0.075  |     |
| 2680.00                                  | 41490 | High | LTE Band 41     | 20                                   | -                           | 24.5                  | 24.50            | 0.03     | 0.5                                     | 05258      | QPSK    | 50        | 25      | 10 mm | left       | 1:1.58   | 0.066          | 1.000             | 0.066  |     |
| 2680.00                                  | 41490 | High | LTE Band 41     | 20                                   | #1                          | 25.5                  | 25.24            | 0.08     | 0                                       | 05258      | QPSK    | 1         | 50      | 10 mm | back       | 1:1.58   | 0.204          | 1.062             | 0.217  |     |
| 2680.00                                  | 41490 | High | LTE Band 41     | 20                                   | #3                          | 25.5                  | 25.24            | 0.01     | 0                                       | 05258      | QPSK    | 1         | 50      | 10 mm | front      | 1:1.58   | 0.320          | 1.062             | 0.340  |     |
| 2680.00                                  | 41490 | High | LTE Band 41     | 20                                   | #1                          | 25.5                  | 25.24            | 0.03     | 0                                       | 05258      | QPSK    | 1         | 50      | 10 mm | bottom     | 1:1.58   | 0.163          | 1.062             | 0.173  |     |
| 2680.00                                  | 41490 | High | LTE Band 41     | 20                                   | #1                          | 25.5                  | 25.24            | 0.12     | 0                                       | 05258      | QPSK    | 1         | 50      | 10 mm | left       | 1:1.58   | 0.023          | 1.062             | 0.024  |     |
| 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 |            |         |           |         |       |            |          |                |                   |        |     |

Note: 1) Green entries represent additional Hotspot SAR Position (DD #1: 0 degrees) Light orange entries represent additional Hotspot SAR Position (DD #3: 360 degrees)

|                                         |                                                                                                                                                                                                |                               |                                                                                       |                                 |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       | <br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                             | DUT Type:<br>Portable Handset |                                                                                       | Page 166 of 224                 |

**Table 11-46**  
**NR Band n71 Hotspot SAR**

| MEASUREMENT RESULTS                                                                               |        |      |                 |                             |                       |                  |          |                                                 |          |            |         |           |         |       |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|--------|------|-----------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------------|----------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |        | Mode | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Serial Number                                   | Waveform | 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                          | 24.8                  | 24.04            | -0.06    | 0                                               | 05209    | DFT-S-OFDM | QPSK    | 1         | 1       | 10 mm | back       | 1:1      | 0.033          | 1.191             | 0.039  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 24.8                  | 24.06            | 0.09     | 0                                               | 05209    | DFT-S-OFDM | QPSK    | 50        | 28      | 10 mm | back       | 1:1      | 0.042          | 1.186             | 0.050  | A56 |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 23.3                  | 22.13            | 0.13     | 1.5                                             | 05209    | CP-OFDM    | QPSK    | 1         | 1       | 10 mm | back       | 1:1      | 0.020          | 1.309             | 0.026  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 24.8                  | 24.04            | 0.15     | 0                                               | 05209    | DFT-S-OFDM | QPSK    | 1         | 1       | 10 mm | front      | 1:1      | 0.021          | 1.191             | 0.025  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 24.8                  | 24.06            | -0.07    | 0                                               | 05209    | DFT-S-OFDM | QPSK    | 50        | 28      | 10 mm | front      | 1:1      | 0.028          | 1.186             | 0.033  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 24.8                  | 24.04            | 0.14     | 0                                               | 05209    | DFT-S-OFDM | QPSK    | 1         | 1       | 10 mm | bottom     | 1:1      | 0.011          | 1.191             | 0.013  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 24.8                  | 24.06            | -0.11    | 0                                               | 05209    | DFT-S-OFDM | QPSK    | 50        | 28      | 10 mm | bottom     | 1:1      | 0.014          | 1.186             | 0.017  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 24.8                  | 24.04            | 0.11     | 0                                               | 05209    | DFT-S-OFDM | QPSK    | 1         | 1       | 10 mm | right      | 1:1      | 0.022          | 1.191             | 0.026  |     |
| 680.50                                                                                            | 136100 | Mid  | NR Band n71     | 20                          | 24.8                  | 24.06            | 0.11     | 0                                               | 05209    | DFT-S-OFDM | QPSK    | 50        | 28      | 10 mm | right      | 1:1      | 0.025          | 1.186             | 0.030  |     |
| 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**  
**NR Band n5 (Cell) Hotspot SAR**

| MEASUREMENT RESULTS                                                                               |        |      |                   |                             |                       |                  |          |                                                 |               |          |            |         |           |         |       |            |          |                |                   |        |     |
|---------------------------------------------------------------------------------------------------|--------|------|-------------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------------|---------------|----------|------------|---------|-----------|---------|-------|------------|----------|----------------|-------------------|--------|-----|
| FREQUENCY                                                                                         |        | Mode | Bandwidth [MHz]   | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Ant State                                       | Serial Number | Waveform | 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 | Mid  | NR Band n5 (Cell) | 20                          | 24.8                  | 24.11            | -0.11    | 0                                               | 8             | 05191    | DFT-S-OFDM | QPSK    | 1         | 1       | 10 mm | back       | 1:1      | 0.438          | 1.172             | 0.513  | A57 |
| 836.50                                                                                            | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 24.8                  | 23.83            | -0.03    | 0                                               | 8             | 05191    | DFT-S-OFDM | QPSK    | 50        | 28      | 10 mm | back       | 1:1      | 0.440          | 1.250             | 0.550  |     |
| 836.50                                                                                            | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 23.3                  | 21.93            | -0.03    | 1.5                                             | 8             | 05191    | CP-OFDM    | QPSK    | 1         | 1       | 10 mm | back       | 1:1      | 0.292          | 1.371             | 0.400  |     |
| 836.50                                                                                            | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 24.8                  | 24.11            | -0.01    | 0                                               | 8             | 05191    | DFT-S-OFDM | QPSK    | 1         | 1       | 10 mm | front      | 1:1      | 0.401          | 1.172             | 0.470  |     |
| 836.50                                                                                            | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 24.8                  | 23.83            | 0.01     | 0                                               | 8             | 05191    | DFT-S-OFDM | QPSK    | 50        | 28      | 10 mm | front      | 1:1      | 0.406          | 1.250             | 0.508  |     |
| 836.50                                                                                            | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 24.8                  | 24.11            | 0.08     | 0                                               | 8             | 05191    | DFT-S-OFDM | QPSK    | 1         | 1       | 10 mm | bottom     | 1:1      | 0.217          | 1.172             | 0.254  |     |
| 836.50                                                                                            | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 24.8                  | 23.83            | 0.02     | 0                                               | 8             | 05191    | DFT-S-OFDM | QPSK    | 50        | 28      | 10 mm | bottom     | 1:1      | 0.211          | 1.250             | 0.264  |     |
| 836.50                                                                                            | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 24.8                  | 24.11            | 0.04     | 0                                               | 8             | 05191    | DFT-S-OFDM | QPSK    | 1         | 1       | 10 mm | right      | 1:1      | 0.148          | 1.172             | 0.173  |     |
| 836.50                                                                                            | 167300 | Mid  | NR Band n5 (Cell) | 20                          | 24.8                  | 23.83            | 0.02     | 0                                               | 8             | 05191    | DFT-S-OFDM | QPSK    | 50        | 28      | 10 mm | right      | 1:1      | 0.163          | 1.250             | 0.204  |     |
| 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: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset |                                                                                       | Page 167 of 224                 |

**Table 11-48**  
**NR Band n66 (AWS) Hotspot SAR**

| MEASUREMENT RESULTS                      |        |      |                   |                                      |                             |                       |                  |                      |               |            |            |         |           |         |          |            |          |                |                   |        |
|------------------------------------------|--------|------|-------------------|--------------------------------------|-----------------------------|-----------------------|------------------|----------------------|---------------|------------|------------|---------|-----------|---------|----------|------------|----------|----------------|-------------------|--------|
| FREQUENCY                                |        | Mode | Bandwidth [MHz]   | Dual Display Accessory Configuration | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB]             | Serial Number | Waveform   | Modulation | RB Size | RB Offset | Spacing | MPR [dB] | Duty Cycle | SAR (lg) | Scaling Factor | Reported SAR (lg) | Plot # |
| MHz                                      | Ch.    |      |                   |                                      |                             |                       |                  |                      |               |            |            |         |           |         |          |            | (W/kg)   |                | (W/kg)            |        |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | #1                                   | 24.5                        | 23.90                 | 0.00             | 0                    | 05209         | DFT-S-OFDM | QPSK       | 1       | 104       | 10 mm   | back     | 1:1        | 0.354    | 1.148          | 0.406             |        |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | #3                                   | 24.5                        | 23.90                 | -0.02            | 0                    | 05209         | DFT-S-OFDM | QPSK       | 1       | 104       | 10 mm   | front    | 1:1        | 0.259    | 1.148          | 0.297             |        |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | #1                                   | 24.5                        | 23.90                 | 0.01             | 0                    | 05209         | DFT-S-OFDM | QPSK       | 1       | 104       | 10 mm   | right    | 1:1        | 0.706    | 1.148          | 0.810             |        |
| 1745.00                                  | 349000 | Mid  | NR Band n66 (AWS) | #1                                   | 24.5                        | 23.60                 | 0.04             | 0                    | 05209         | DFT-S-OFDM | QPSK       | 1       | 104       | 10 mm   | right    | 1:1        | 0.815    | 1.230          | 1.002             |        |
| 1770.00                                  | 354000 | High | NR Band n66 (AWS) | #1                                   | 24.5                        | 23.82                 | 0.01             | 0                    | 05209         | DFT-S-OFDM | QPSK       | 1       | 104       | 10 mm   | right    | 1:1        | 0.953    | 1.169          | 1.114             | A59    |
| 1770.00                                  | 354000 | High | NR Band n66 (AWS) | #3                                   | 24.5                        | 23.82                 | -0.12            | 0                    | 05209         | DFT-S-OFDM | QPSK       | 1       | 104       | 10 mm   | right    | 1:1        | 0.716    | 1.169          | 0.837             |        |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | -                                    | 24.0                        | 23.46                 | 0.12             | 0                    | 05209         | DFT-S-OFDM | QPSK       | 1       | 1         | 10 mm   | back     | 1:1        | 0.335    | 1.132          | 0.379             |        |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | -                                    | 24.0                        | 23.37                 | -0.07            | 0                    | 05209         | DFT-S-OFDM | QPSK       | 50      | 0         | 10 mm   | back     | 1:1        | 0.322    | 1.156          | 0.372             |        |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | -                                    | 24.0                        | 23.46                 | -0.05            | 0                    | 05209         | DFT-S-OFDM | QPSK       | 1       | 1         | 10 mm   | front    | 1:1        | 0.225    | 1.132          | 0.255             |        |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | -                                    | 24.0                        | 23.37                 | -0.02            | 0                    | 05209         | DFT-S-OFDM | QPSK       | 50      | 0         | 10 mm   | front    | 1:1        | 0.225    | 1.156          | 0.260             |        |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | -                                    | 24.0                        | 23.46                 | 0.02             | 0                    | 05209         | DFT-S-OFDM | QPSK       | 1       | 1         | 10 mm   | right    | 1:1        | 0.604    | 1.132          | 0.684             |        |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | -                                    | 24.0                        | 23.37                 | -0.09            | 0                    | 05209         | DFT-S-OFDM | QPSK       | 50      | 0         | 10 mm   | right    | 1:1        | 0.598    | 1.156          | 0.691             |        |
| 1745.00                                  | 349000 | Mid  | NR Band n66 (AWS) | -                                    | 24.0                        | 23.34                 | 0.00             | 0                    | 05209         | DFT-S-OFDM | QPSK       | 50      | 28        | 10 mm   | right    | 1:1        | 0.729    | 1.164          | 0.849             |        |
| 1770.00                                  | 354000 | High | NR Band n66 (AWS) | -                                    | 24.0                        | 23.29                 | -0.01            | 0                    | 05209         | DFT-S-OFDM | QPSK       | 50      | 28        | 10 mm   | right    | 1:1        | 0.799    | 1.178          | 0.941             |        |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | -                                    | 24.0                        | 23.36                 | -0.02            | 0                    | 05209         | DFT-S-OFDM | QPSK       | 100     | 0         | 10 mm   | right    | 1:1        | 0.615    | 1.159          | 0.713             |        |
| 1720.00                                  | 344000 | Low  | NR Band n66 (AWS) | -                                    | 24.0                        | 23.17                 | 0.01             | 0                    | 05209         | CP-OFDM    | QPSK       | 1       | 1         | 10 mm   | right    | 1:1        | 0.517    | 1.211          | 0.626             |        |
| 1770.00                                  | 354000 | High | NR Band n66 (AWS) | #1                                   | 24.5                        | 23.82                 | 0.04             | 0                    | 05209         | DFT-S-OFDM | QPSK       | 1       | 104       | 10 mm   | right    | 1:1        | 0.923    | 1.169          | 1.079             |        |
| 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: 1) Blue entry represents variability measurement. 2) Green entries represent additional Hotspot SAR Position (DD #1: 0 degrees) 3) Light orange entries represent additional Hotspot SAR Position (DD #3: 360 degrees)

|                                         |                                                                                                                                                                                                                      |                               |                                                                                                 |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  element | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                                   | DUT Type:<br>Portable Handset |                                                                                                 | Page 168 of 224                 |

**Table 11-49**  
**NR Band n25 (PCS) Hotspot SAR**

| MEASUREMENT RESULTS                                                                               |        |      |                   |                             |                       |                  |          |                                                 |          |            |         |           |         |          |            |                 |                |                          |        |
|---------------------------------------------------------------------------------------------------|--------|------|-------------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------------|----------|------------|---------|-----------|---------|----------|------------|-----------------|----------------|--------------------------|--------|
| FREQUENCY                                                                                         |        | Mode | Bandwidth [MHz]   | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Serial Number                                   | Waveform | Modulation | RB Size | RB Offset | Spacing | MPR [dB] | Duty Cycle | SAR (1g) (W/kg) | Scaling Factor | Reported SAR (1g) (W/kg) | Plot # |
| MHz                                                                                               | Ch.    |      |                   |                             |                       |                  |          |                                                 |          |            |         |           |         |          |            |                 |                |                          |        |
| 1860.00                                                                                           | 372000 | Low  | NR Band n25 (PCS) | 20                          | 24.5                  | 23.88            | -0.14    | 0                                               | 05209    | DFT-S-OFDM | QPSK    | 1         | 104     | 10 mm    | back       | 1:1             | 0.538          | 1.153                    | 0.620  |
| 1882.50                                                                                           | 376500 | Mid  | NR Band n25 (PCS) | 20                          | 24.5                  | 23.80            | -0.17    | 0                                               | 05209    | DFT-S-OFDM | QPSK    | 1         | 1       | 10 mm    | back       | 1:1             | 0.527          | 1.175                    | 0.619  |
| 1905.00                                                                                           | 381000 | High | NR Band n25 (PCS) | 20                          | 24.5                  | 23.73            | -0.15    | 0                                               | 05209    | DFT-S-OFDM | QPSK    | 1         | 104     | 10 mm    | back       | 1:1             | 0.480          | 1.194                    | 0.573  |
| 1860.00                                                                                           | 372000 | Low  | NR Band n25 (PCS) | 20                          | 24.5                  | 23.94            | -0.19    | 0                                               | 05209    | DFT-S-OFDM | QPSK    | 50        | 28      | 10 mm    | back       | 1:1             | 0.507          | 1.138                    | 0.577  |
| 1860.00                                                                                           | 372000 | Low  | NR Band n25 (PCS) | 20                          | 24.5                  | 23.88            | 0.00     | 0                                               | 05209    | DFT-S-OFDM | QPSK    | 1         | 104     | 10 mm    | front      | 1:1             | 0.445          | 1.153                    | 0.513  |
| 1860.00                                                                                           | 372000 | Low  | NR Band n25 (PCS) | 20                          | 24.5                  | 23.94            | -0.07    | 0                                               | 05209    | DFT-S-OFDM | QPSK    | 50        | 28      | 10 mm    | front      | 1:1             | 0.408          | 1.138                    | 0.464  |
| 1860.00                                                                                           | 372000 | Low  | NR Band n25 (PCS) | 20                          | 24.5                  | 23.88            | -0.02    | 0                                               | 05209    | DFT-S-OFDM | QPSK    | 1         | 104     | 10 mm    | right      | 1:1             | 0.825          | 1.153                    | 0.951  |
| 1882.50                                                                                           | 376500 | Mid  | NR Band n25 (PCS) | 20                          | 24.5                  | 23.80            | -0.16    | 0                                               | 05209    | DFT-S-OFDM | QPSK    | 1         | 1       | 10 mm    | right      | 1:1             | 0.803          | 1.175                    | 0.944  |
| 1905.00                                                                                           | 381000 | High | NR Band n25 (PCS) | 20                          | 24.5                  | 23.73            | -0.21    | 0                                               | 05209    | DFT-S-OFDM | QPSK    | 1         | 104     | 10 mm    | right      | 1:1             | 0.769          | 1.194                    | 0.918  |
| 1860.00                                                                                           | 372000 | Low  | NR Band n25 (PCS) | 20                          | 24.5                  | 23.94            | -0.08    | 0                                               | 05209    | DFT-S-OFDM | QPSK    | 50        | 28      | 10 mm    | right      | 1:1             | 0.802          | 1.138                    | 0.913  |
| 1882.50                                                                                           | 376500 | Mid  | NR Band n25 (PCS) | 20                          | 24.5                  | 23.77            | -0.19    | 0                                               | 05209    | DFT-S-OFDM | QPSK    | 50        | 0       | 10 mm    | right      | 1:1             | 0.779          | 1.183                    | 0.922  |
| 1905.00                                                                                           | 381000 | High | NR Band n25 (PCS) | 20                          | 24.5                  | 23.68            | -0.15    | 0                                               | 05209    | DFT-S-OFDM | QPSK    | 50        | 56      | 10 mm    | right      | 1:1             | 0.771          | 1.208                    | 0.931  |
| 1860.00                                                                                           | 372000 | Low  | NR Band n25 (PCS) | 20                          | 24.5                  | 23.93            | -0.06    | 0                                               | 05209    | DFT-S-OFDM | QPSK    | 100       | 0       | 10 mm    | right      | 1:1             | 0.801          | 1.140                    | 0.913  |
| 1860.00                                                                                           | 372000 | Low  | NR Band n25 (PCS) | 20                          | 24.0                  | 23.26            | 0.01     | 0.5                                             | 05209    | CP-OFDM    | QPSK    | 1         | 1       | 10 mm    | right      | 1:1             | 0.694          | 1.186                    | 0.823  |
| 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 11-50**  
**NR Band n41 Hotspot SAR**

| MEASUREMENT RESULTS                                                                               |        |      |                 |                                      |                             |                       |                  |          |                                                 |          |            |         |           |         |          |            |          |                |                   |        |     |  |
|---------------------------------------------------------------------------------------------------|--------|------|-----------------|--------------------------------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------------|----------|------------|---------|-----------|---------|----------|------------|----------|----------------|-------------------|--------|-----|--|
| FREQUENCY                                                                                         |        | Mode | Bandwidth [MHz] | Dual Display Accessory Configuration | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Serial Number                                   | Waveform | Modulation | RB Size | RB Offset | Spacing | MPR [dB] | Duty Cycle | SAR (1g) | Scaling Factor | Reported SAR (1g) | Plot # |     |  |
| MHz                                                                                               | Ch.    |      |                 |                                      |                             |                       |                  |          |                                                 |          |            |         |           |         |          |            | (W/kg)   |                | (W/kg)            |        |     |  |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41     | 100                                  | #1                          | 25.0                  | 24.41            | 0.03     | 0                                               | 05191    | DFT-S-OFDM | QPSK    | 1         | 1       | 10 mm    | back       | 1:4      | 0.354          | 1.146             | 0.406  |     |  |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41     | 100                                  | #3                          | 25.0                  | 24.41            | 0.12     | 0                                               | 05191    | DFT-S-OFDM | QPSK    | 1         | 1       | 10 mm    | front      | 1:4      | 0.012          | 1.146             | 0.014  |     |  |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41     | 100                                  | #1                          | 25.0                  | 24.41            | 0.00     | 0                                               | 05191    | DFT-S-OFDM | QPSK    | 1         | 1       | 10 mm    | right      | 1:4      | 0.100          | 1.146             | 0.115  |     |  |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41     | 100                                  | -                           | 24.0                  | 23.47            | -0.14    | 0                                               | 05191    | DFT-S-OFDM | QPSK    | 1         | 271     | 10 mm    | back       | 1:4      | 0.473          | 1.130             | 0.534  |     |  |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41     | 100                                  | -                           | 24.0                  | 23.28            | -0.03    | 0                                               | 05191    | DFT-S-OFDM | QPSK    | 135       | 138     | 10 mm    | back       | 1:4      | 0.484          | 1.180             | 0.571  | A62 |  |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41     | 100                                  | -                           | 23.5                  | 23.01            | -0.15    | 0.5                                             | 05191    | CP-OFDM    | QPSK    | 1         | 1       | 10 mm    | back       | 1:4      | 0.309          | 1.119             | 0.346  |     |  |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41     | 100                                  | -                           | 24.0                  | 23.47            | 0.12     | 0                                               | 05191    | DFT-S-OFDM | QPSK    | 1         | 271     | 10 mm    | front      | 1:4      | 0.013          | 1.130             | 0.015  |     |  |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41     | 100                                  | -                           | 24.0                  | 23.28            | 0.21     | 0                                               | 05191    | DFT-S-OFDM | QPSK    | 135       | 138     | 10 mm    | front      | 1:4      | 0.015          | 1.180             | 0.018  |     |  |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41     | 100                                  | -                           | 24.0                  | 23.47            | 0.17     | 0                                               | 05191    | DFT-S-OFDM | QPSK    | 1         | 271     | 10 mm    | right      | 1:4      | 0.135          | 1.130             | 0.153  |     |  |
| 2592.99                                                                                           | 518598 | Mid  | NR Band n41     | 100                                  | -                           | 24.0                  | 23.28            | 0.04     | 0                                               | 05191    | DFT-S-OFDM | QPSK    | 135       | 138     | 10 mm    | right      | 1:4      | 0.139          | 1.180             | 0.164  |     |  |
| 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: 1) Green entries represent additional Hotspot SAR Position (DD #1: 0 degrees) 2) Light orange entries represent additional Hotspot SAR Position (DD #3: 360 degrees)

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                  | DUT Type:<br>Portable Handset |                                                                                       | Page 169 of 224                 |

**Table 11-51  
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)            |        |
| 2412                                     | 1   | 802.11b | DSSS    | 22              | 20.5                        | 20.14                 | -0.03            | 10 mm                                   | 1               | 05381                | 1                | back  | 99.3           | 0.229                 | 0.149    | 1.086                  | 1.007                       | 0.163             |        |
| 2412                                     | 1   | 802.11b | DSSS    | 22              | 20.5                        | 20.14                 | 0.14             | 10 mm                                   | 1               | 05381                | 1                | front | 99.3           | 0.225                 | -        | 1.086                  | 1.007                       | -                 |        |
| 2412                                     | 1   | 802.11b | DSSS    | 22              | 20.5                        | 20.14                 | 0.16             | 10 mm                                   | 1               | 05381                | 1                | top   | 99.3           | 0.309                 | -        | 1.086                  | 1.007                       | -                 |        |
| 2412                                     | 1   | 802.11b | DSSS    | 22              | 20.5                        | 20.14                 | 0.12             | 10 mm                                   | 1               | 05381                | 1                | left  | 99.3           | 0.534                 | 0.329    | 1.086                  | 1.007                       | 0.360             | A64    |
| 2462                                     | 11  | 802.11b | DSSS    | 22              | 20.5                        | 20.10                 | 0.17             | 10 mm                                   | 2               | 05381                | 1                | back  | 99.3           | 0.359                 | 0.222    | 1.096                  | 1.007                       | 0.245             |        |
| 2462                                     | 11  | 802.11b | DSSS    | 22              | 20.5                        | 20.10                 | 0.16             | 10 mm                                   | 2               | 05381                | 1                | front | 99.3           | 0.217                 | -        | 1.096                  | 1.007                       | -                 |        |
| 2462                                     | 11  | 802.11b | DSSS    | 22              | 20.5                        | 20.10                 | 0.17             | 10 mm                                   | 2               | 05381                | 1                | top   | 99.3           | 0.495                 | 0.282    | 1.096                  | 1.007                       | 0.311             |        |
| 2462                                     | 11  | 802.11b | DSSS    | 22              | 20.5                        | 20.10                 | 0.17             | 10 mm                                   | 2               | 05381                | 1                | left  | 99.3           | 0.051                 | -        | 1.096                  | 1.007                       | -                 |        |
| 5200                                     | 40  | 802.11a | OFDM    | 20              | 19.0                        | 18.92                 | 0.16             | 10 mm                                   | 1               | 05381                | 6                | back  | 98.3           | 0.738                 | 0.374    | 1.019                  | 1.017                       | 0.388             | A66    |
| 5200                                     | 40  | 802.11a | OFDM    | 20              | 19.0                        | 18.92                 | 0.15             | 10 mm                                   | 1               | 05381                | 6                | front | 98.3           | 0.193                 | 0.086    | 1.019                  | 1.017                       | 0.089             |        |
| 5200                                     | 40  | 802.11a | OFDM    | 20              | 19.0                        | 18.92                 | 0.19             | 10 mm                                   | 1               | 05381                | 6                | top   | 98.3           | 0.313                 | -        | 1.019                  | 1.017                       | -                 |        |
| 5200                                     | 40  | 802.11a | OFDM    | 20              | 19.0                        | 18.92                 | 0.15             | 10 mm                                   | 1               | 05381                | 6                | left  | 98.3           | 0.277                 | -        | 1.019                  | 1.017                       | -                 |        |
| 5200                                     | 40  | 802.11a | OFDM    | 20              | 19.0                        | 18.98                 | 0.17             | 10 mm                                   | 2               | 05381                | 6                | back  | 96.4           | 0.212                 | 0.110    | 1.005                  | 1.037                       | 0.115             |        |
| 5200                                     | 40  | 802.11a | OFDM    | 20              | 19.0                        | 18.98                 | -0.09            | 10 mm                                   | 2               | 05381                | 6                | front | 96.4           | 0.158                 | 0.078    | 1.005                  | 1.037                       | 0.081             |        |
| 5200                                     | 40  | 802.11a | OFDM    | 20              | 19.0                        | 18.98                 | -0.15            | 10 mm                                   | 2               | 05381                | 6                | top   | 96.4           | 0.142                 | -        | 1.005                  | 1.037                       | -                 |        |
| 5200                                     | 40  | 802.11a | OFDM    | 20              | 19.0                        | 18.98                 | 0.17             | 10 mm                                   | 2               | 05381                | 6                | left  | 96.4           | 0.157                 | -        | 1.005                  | 1.037                       | -                 |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 19.0                        | 18.86                 | -0.06            | 10 mm                                   | 1               | 05381                | 6                | back  | 98.3           | 0.480                 | 0.206    | 1.033                  | 1.017                       | 0.216             |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 19.0                        | 18.86                 | -0.19            | 10 mm                                   | 1               | 05381                | 6                | front | 98.3           | 0.256                 | 0.112    | 1.033                  | 1.017                       | 0.118             |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 19.0                        | 18.86                 | 0.17             | 10 mm                                   | 1               | 05381                | 6                | top   | 98.3           | 0.166                 | -        | 1.033                  | 1.017                       | -                 |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 19.0                        | 18.86                 | 0.14             | 10 mm                                   | 1               | 05381                | 6                | left  | 98.3           | 0.226                 | -        | 1.033                  | 1.017                       | -                 |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 19.0                        | 18.93                 | 0.14             | 10 mm                                   | 2               | 05381                | 6                | back  | 96.4           | 0.615                 | 0.248    | 1.016                  | 1.037                       | 0.261             |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 19.0                        | 18.93                 | -0.19            | 10 mm                                   | 2               | 05381                | 6                | front | 96.4           | 0.109                 | 0.043    | 1.016                  | 1.037                       | 0.045             |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 19.0                        | 18.93                 | -0.13            | 10 mm                                   | 2               | 05381                | 6                | top   | 96.4           | 0.132                 | -        | 1.016                  | 1.037                       | -                 |        |
| 5785                                     | 157 | 802.11a | OFDM    | 20              | 19.0                        | 18.93                 | 0.16             | 10 mm                                   | 2               | 05381                | 6                | left  | 96.4           | 0.116                 | -        | 1.016                  | 1.037                       | -                 |        |
| 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 11-52  
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)            |        |
| 2402                                                                                              | 0   | Bluetooth | FHSS    | 11.0                        | 10.20                 | 0.12             | 10 mm                                           | 05373                | 1                | back  | 77.3           | 0.015    | 1.202                       | 1.294                       | 0.023             |        |
| 2402                                                                                              | 0   | Bluetooth | FHSS    | 11.0                        | 10.20                 | -0.12            | 10 mm                                           | 05373                | 1                | front | 77.3           | 0.010    | 1.202                       | 1.294                       | 0.016             |        |
| 2402                                                                                              | 0   | Bluetooth | FHSS    | 11.0                        | 10.20                 | 0.05             | 10 mm                                           | 05373                | 1                | top   | 77.3           | 0.012    | 1.202                       | 1.294                       | 0.019             |        |
| 2402                                                                                              | 0   | Bluetooth | FHSS    | 11.0                        | 10.20                 | -0.15            | 10 mm                                           | 05373                | 1                | left  | 77.3           | 0.037    | 1.202                       | 1.294                       | 0.058             | A68    |
| 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: ZNFG900UM                       | <br>Proud to be part of element | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                 | DUT Type:<br>Portable Handset |                                                                                       | Page 170 of 224                 |

## 11.4 Standalone Phablet SAR Data

**Table 11-53**  
**CDMA Phablet SAR Data**

| MEASUREMENT RESULTS                                                                               |      |          |             |                             |                       |                  |          |                                                      |                                      |                      |            |        |           |                |                    |        |
|---------------------------------------------------------------------------------------------------|------|----------|-------------|-----------------------------|-----------------------|------------------|----------|------------------------------------------------------|--------------------------------------|----------------------|------------|--------|-----------|----------------|--------------------|--------|
| FREQUENCY                                                                                         |      | Mode     | Service     | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Position | Spacing                                              | Dual Display Accessory Configuration | Device Serial Number | Duty Cycle | Side   | SAR (10g) | Scaling Factor | Reported SAR (10g) | Plot # |
| MHz                                                                                               | Ch.  |          |             |                             |                       |                  |          |                                                      |                                      |                      |            |        | (W/kg)    |                | (W/kg)             |        |
| 1851.25                                                                                           | 25   | PCS CDMA | EVDO Rev. 0 | 25.5                        | 24.97                 | 0.15             | Body     | 2 mm                                                 | -                                    | 05282                | 1:1        | back   | 2.270     | 1.130          | 2.565              |        |
| 1880.00                                                                                           | 600  | PCS CDMA | EVDO Rev. 0 | 25.5                        | 25.11                 | 0.14             | Body     | 2 mm                                                 | -                                    | 05282                | 1:1        | back   | 2.450     | 1.094          | 2.680              |        |
| 1908.75                                                                                           | 1175 | PCS CDMA | EVDO Rev. 0 | 25.5                        | 25.06                 | 0.14             | Body     | 2 mm                                                 | -                                    | 05282                | 1:1        | back   | 2.450     | 1.107          | 2.712              |        |
| 1851.25                                                                                           | 25   | PCS CDMA | EVDO Rev. 0 | 25.5                        | 24.97                 | -0.03            | Body     | 1 mm                                                 | -                                    | 05282                | 1:1        | front  | 2.130     | 1.130          | 2.407              |        |
| 1880.00                                                                                           | 600  | PCS CDMA | EVDO Rev. 0 | 25.5                        | 25.11                 | 0.03             | Body     | 1 mm                                                 | -                                    | 05282                | 1:1        | front  | 2.240     | 1.094          | 2.451              |        |
| 1908.75                                                                                           | 1175 | PCS CDMA | EVDO Rev. 0 | 25.5                        | 25.06                 | 0.05             | Body     | 1 mm                                                 | -                                    | 05282                | 1:1        | front  | 2.380     | 1.107          | 2.635              |        |
| 1851.25                                                                                           | 25   | PCS CDMA | EVDO Rev. 0 | 25.5                        | 24.97                 | -0.07            | Body     | 4 mm                                                 | -                                    | 05282                | 1:1        | bottom | 2.020     | 1.130          | 2.283              |        |
| 1880.00                                                                                           | 600  | PCS CDMA | EVDO Rev. 0 | 25.5                        | 25.11                 | -0.03            | Body     | 4 mm                                                 | -                                    | 05282                | 1:1        | bottom | 2.320     | 1.094          | 2.538              |        |
| 1908.75                                                                                           | 1175 | PCS CDMA | EVDO Rev. 0 | 25.5                        | 25.06                 | 0.01             | Body     | 4 mm                                                 | -                                    | 05282                | 1:1        | bottom | 2.330     | 1.107          | 2.579              |        |
| 1880.00                                                                                           | 600  | PCS CDMA | EVDO Rev. 0 | 25.5                        | 25.11                 | -0.16            | Body     | 0 mm                                                 | -                                    | 05282                | 1:1        | left   | 0.646     | 1.094          | 0.707              |        |
| 1851.25                                                                                           | 25   | PCS CDMA | EVDO Rev. 0 | 22.5                        | 22.21                 | -0.13            | Body     | 0 mm                                                 | -                                    | 05282                | 1:1        | back   | 1.850     | 1.069          | 1.978              |        |
| 1880.00                                                                                           | 600  | PCS CDMA | EVDO Rev. 0 | 22.5                        | 22.09                 | 0.00             | Body     | 0 mm                                                 | -                                    | 05282                | 1:1        | back   | 1.970     | 1.099          | 2.165              |        |
| 1908.75                                                                                           | 1175 | PCS CDMA | EVDO Rev. 0 | 22.5                        | 22.37                 | -0.19            | Body     | 0 mm                                                 | -                                    | 05282                | 1:1        | back   | 1.900     | 1.030          | 1.957              |        |
| 1880.00                                                                                           | 600  | PCS CDMA | EVDO Rev. 0 | 22.5                        | 22.09                 | -0.14            | Body     | 0 mm                                                 | -                                    | 05282                | 1:1        | front  | 1.580     | 1.099          | 1.736              |        |
| 1851.25                                                                                           | 25   | PCS CDMA | EVDO Rev. 0 | 22.5                        | 22.21                 | 0.03             | Body     | 0 mm                                                 | -                                    | 05282                | 1:1        | bottom | 2.240     | 1.069          | 2.395              |        |
| 1880.00                                                                                           | 600  | PCS CDMA | EVDO Rev. 0 | 22.5                        | 22.09                 | -0.07            | Body     | 0 mm                                                 | -                                    | 05282                | 1:1        | bottom | 2.400     | 1.099          | 2.638              |        |
| 1908.75                                                                                           | 1175 | PCS CDMA | EVDO Rev. 0 | 22.5                        | 22.37                 | -0.01            | Body     | 0 mm                                                 | -                                    | 05282                | 1:1        | bottom | 2.580     | 1.030          | 2.657              | A69    |
| 1851.25                                                                                           | 25   | PCS CDMA | EVDO Rev. 0 | 24.5                        | 23.92                 | -0.07            | Body     | 0 mm                                                 | #1                                   | 05282                | 1:1        | back   | 2.130     | 1.143          | 2.435              |        |
| 1880.00                                                                                           | 600  | PCS CDMA | EVDO Rev. 0 | 24.5                        | 24.08                 | -0.05            | Body     | 0 mm                                                 | #1                                   | 05282                | 1:1        | back   | 2.140     | 1.102          | 2.358              |        |
| 1908.75                                                                                           | 1175 | PCS CDMA | EVDO Rev. 0 | 24.5                        | 23.92                 | -0.06            | Body     | 0 mm                                                 | #1                                   | 05282                | 1:1        | back   | 2.100     | 1.143          | 2.400              |        |
| 1851.25                                                                                           | 25   | PCS CDMA | EVDO Rev. 0 | 24.5                        | 23.92                 | 0.07             | Body     | 0 mm                                                 | #3                                   | 05282                | 1:1        | front  | 2.340     | 1.143          | 2.675              |        |
| 1880.00                                                                                           | 600  | PCS CDMA | EVDO Rev. 0 | 24.5                        | 24.08                 | 0.00             | Body     | 0 mm                                                 | #3                                   | 05282                | 1:1        | front  | 2.300     | 1.102          | 2.535              |        |
| 1908.75                                                                                           | 1175 | PCS CDMA | EVDO Rev. 0 | 24.5                        | 23.92                 | 0.01             | Body     | 0 mm                                                 | #3                                   | 05282                | 1:1        | front  | 2.280     | 1.143          | 2.606              |        |
| 1851.25                                                                                           | 25   | PCS CDMA | EVDO Rev. 0 | 24.5                        | 23.92                 | -0.01            | Body     | 0 mm                                                 | #1                                   | 05282                | 1:1        | bottom | 1.790     | 1.143          | 2.046              |        |
| 1880.00                                                                                           | 600  | PCS CDMA | EVDO Rev. 0 | 24.5                        | 24.08                 | -0.11            | Body     | 0 mm                                                 | #1                                   | 05282                | 1:1        | bottom | 1.860     | 1.102          | 2.050              |        |
| 1908.75                                                                                           | 1175 | PCS CDMA | EVDO Rev. 0 | 24.5                        | 23.92                 | -0.09            | Body     | 0 mm                                                 | #1                                   | 05282                | 1:1        | bottom | 1.820     | 1.143          | 2.080              |        |
| 1880.00                                                                                           | 600  | PCS CDMA | EVDO Rev. 0 | 24.5                        | 24.08                 | 0.12             | Body     | 0 mm                                                 | #1                                   | 05282                | 1:1        | left   | 0.180     | 1.102          | 0.198              |        |
| 1908.75                                                                                           | 1175 | PCS CDMA | EVDO Rev. 0 | 22.5                        | 22.37                 | -0.02            | Body     | 0 mm                                                 | -                                    | 05282                | 1:1        | bottom | 2.550     | 1.030          | 2.627              |        |
| 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: 1) Blue entry represents variability measurement. 2) Green entries represent additional Phablet SAR Position (DD #1: 0 degrees) 3) Light orange entries represent additional Phablet SAR Position (DD #3: 360 degrees)

|                                         |                                                                                                                                  |                               |                                                                                       |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset |                                                                                       | Page 171 of 224                 |

**Table 11-54**  
**UMTS Phablet SAR Data**

| MEASUREMENT RESULTS                      |      |           |         |                             |                       |                  |          |                        |                                      |                      |            |        |           |                |                    |        |
|------------------------------------------|------|-----------|---------|-----------------------------|-----------------------|------------------|----------|------------------------|--------------------------------------|----------------------|------------|--------|-----------|----------------|--------------------|--------|
| FREQUENCY                                |      | Mode      | Service | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Position | Spacing                | Dual Display Accessory Configuration | Device Serial Number | Duty Cycle | Side   | SAR (10g) | Scaling Factor | Reported SAR (10g) | Plot # |
| MHz                                      | Ch.  |           |         |                             |                       |                  |          |                        |                                      |                      |            |        | (W/kg)    |                | (W/kg)             |        |
| 1732.40                                  | 1412 | UMTS 1750 | RMC     | 25.5                        | 25.10                 | -0.04            | Body     | 2 mm                   | -                                    | 05282                | 1:1        | back   | 1.320     | 1.096          | 1.447              |        |
| 1732.40                                  | 1412 | UMTS 1750 | RMC     | 25.5                        | 25.10                 | -0.02            | Body     | 1 mm                   | -                                    | 05282                | 1:1        | front  | 1.570     | 1.096          | 1.721              |        |
| 1732.40                                  | 1412 | UMTS 1750 | RMC     | 25.5                        | 25.10                 | 0.05             | Body     | 4 mm                   | -                                    | 05282                | 1:1        | bottom | 1.380     | 1.096          | 1.512              |        |
| 1732.40                                  | 1412 | UMTS 1750 | RMC     | 25.5                        | 25.10                 | 0.03             | Body     | 0 mm                   | -                                    | 05282                | 1:1        | left   | 0.433     | 1.096          | 0.475              |        |
| 1732.40                                  | 1412 | UMTS 1750 | RMC     | 22.5                        | 22.43                 | -0.01            | Body     | 0 mm                   | -                                    | 05282                | 1:1        | back   | 1.590     | 1.016          | 1.615              |        |
| 1732.40                                  | 1412 | UMTS 1750 | RMC     | 22.5                        | 22.43                 | -0.04            | Body     | 0 mm                   | -                                    | 05282                | 1:1        | front  | 1.080     | 1.016          | 1.097              |        |
| 1712.40                                  | 1312 | UMTS 1750 | RMC     | 22.5                        | 22.47                 | -0.02            | Body     | 0 mm                   | -                                    | 05282                | 1:1        | bottom | 1.520     | 1.007          | 1.531              |        |
| 1732.40                                  | 1412 | UMTS 1750 | RMC     | 22.5                        | 22.43                 | 0.03             | Body     | 0 mm                   | -                                    | 05282                | 1:1        | bottom | 1.670     | 1.016          | 1.697              |        |
| 1752.60                                  | 1513 | UMTS 1750 | RMC     | 22.5                        | 22.45                 | -0.06            | Body     | 0 mm                   | -                                    | 05282                | 1:1        | bottom | 1.780     | 1.012          | 1.801              |        |
| 1712.40                                  | 1312 | UMTS 1750 | RMC     | 24.5                        | 24.20                 | 0.16             | Body     | 0 mm                   | #1                                   | 05274                | 1:1        | back   | 2.230     | 1.072          | 2.391              |        |
| 1732.40                                  | 1412 | UMTS 1750 | RMC     | 24.5                        | 24.22                 | 0.16             | Body     | 0 mm                   | #1                                   | 05274                | 1:1        | back   | 2.400     | 1.067          | 2.561              |        |
| 1752.60                                  | 1513 | UMTS 1750 | RMC     | 24.5                        | 24.21                 | 0.09             | Body     | 0 mm                   | #1                                   | 05274                | 1:1        | back   | 2.700     | 1.069          | 2.886              | A70    |
| 1712.40                                  | 1312 | UMTS 1750 | RMC     | 24.5                        | 24.20                 | -0.09            | Body     | 0 mm                   | #3                                   | 05274                | 1:1        | front  | 2.360     | 1.072          | 2.530              |        |
| 1732.40                                  | 1412 | UMTS 1750 | RMC     | 24.5                        | 24.22                 | -0.15            | Body     | 0 mm                   | #3                                   | 05274                | 1:1        | front  | 2.460     | 1.067          | 2.625              |        |
| 1752.60                                  | 1513 | UMTS 1750 | RMC     | 24.5                        | 24.21                 | -0.11            | Body     | 0 mm                   | #3                                   | 05274                | 1:1        | front  | 2.410     | 1.069          | 2.576              |        |
| 1712.40                                  | 1312 | UMTS 1750 | RMC     | 24.5                        | 24.20                 | 0.00             | Body     | 0 mm                   | #1                                   | 05274                | 1:1        | bottom | 1.590     | 1.072          | 1.704              |        |
| 1732.40                                  | 1412 | UMTS 1750 | RMC     | 24.5                        | 24.22                 | -0.04            | Body     | 0 mm                   | #1                                   | 05274                | 1:1        | bottom | 1.810     | 1.067          | 1.931              |        |
| 1752.60                                  | 1513 | UMTS 1750 | RMC     | 24.5                        | 24.21                 | 0.00             | Body     | 0 mm                   | #1                                   | 05274                | 1:1        | bottom | 1.970     | 1.069          | 2.106              |        |
| 1732.40                                  | 1412 | UMTS 1750 | RMC     | 24.5                        | 24.22                 | -0.08            | Body     | 0 mm                   | #1                                   | 05274                | 1:1        | left   | 0.152     | 1.067          | 0.162              |        |
| 1880.00                                  | 9400 | UMTS 1900 | RMC     | 25.5                        | 25.09                 | 0.09             | Body     | 2 mm                   | -                                    | 05258                | 1:1        | back   | 1.810     | 1.099          | 1.989              |        |
| 1852.40                                  | 9262 | UMTS 1900 | RMC     | 25.5                        | 25.02                 | -0.07            | Body     | 1 mm                   | -                                    | 05258                | 1:1        | front  | 1.720     | 1.117          | 1.921              |        |
| 1880.00                                  | 9400 | UMTS 1900 | RMC     | 25.5                        | 25.09                 | -0.06            | Body     | 1 mm                   | -                                    | 05258                | 1:1        | front  | 1.860     | 1.099          | 2.044              |        |
| 1907.60                                  | 9538 | UMTS 1900 | RMC     | 25.5                        | 25.05                 | -0.05            | Body     | 1 mm                   | -                                    | 05258                | 1:1        | front  | 1.970     | 1.109          | 2.185              |        |
| 1880.00                                  | 9400 | UMTS 1900 | RMC     | 25.5                        | 25.09                 | -0.02            | Body     | 4 mm                   | -                                    | 05258                | 1:1        | bottom | 1.570     | 1.099          | 1.725              |        |
| 1880.00                                  | 9400 | UMTS 1900 | RMC     | 25.5                        | 25.09                 | -0.03            | Body     | 0 mm                   | -                                    | 05258                | 1:1        | left   | 0.528     | 1.099          | 0.580              |        |
| 1852.40                                  | 9262 | UMTS 1900 | RMC     | 22.5                        | 22.42                 | 0.15             | Body     | 0 mm                   | -                                    | 05258                | 1:1        | back   | 1.990     | 1.019          | 2.028              |        |
| 1880.00                                  | 9400 | UMTS 1900 | RMC     | 22.5                        | 22.44                 | 0.18             | Body     | 0 mm                   | -                                    | 05258                | 1:1        | back   | 2.070     | 1.014          | 2.099              |        |
| 1907.60                                  | 9538 | UMTS 1900 | RMC     | 22.5                        | 22.50                 | -0.05            | Body     | 0 mm                   | -                                    | 05258                | 1:1        | back   | 2.110     | 1.000          | 2.110              |        |
| 1880.00                                  | 9400 | UMTS 1900 | RMC     | 22.5                        | 22.44                 | -0.13            | Body     | 0 mm                   | -                                    | 05258                | 1:1        | front  | 1.560     | 1.014          | 1.582              |        |
| 1852.40                                  | 9262 | UMTS 1900 | RMC     | 22.5                        | 22.42                 | -0.07            | Body     | 0 mm                   | -                                    | 05258                | 1:1        | bottom | 2.040     | 1.019          | 2.079              |        |
| 1880.00                                  | 9400 | UMTS 1900 | RMC     | 22.5                        | 22.44                 | -0.09            | Body     | 0 mm                   | -                                    | 05258                | 1:1        | bottom | 2.160     | 1.014          | 2.190              |        |
| 1907.60                                  | 9538 | UMTS 1900 | RMC     | 22.5                        | 22.50                 | -0.07            | Body     | 0 mm                   | -                                    | 05258                | 1:1        | bottom | 2.340     | 1.000          | 2.340              | A71    |
| 1852.40                                  | 9262 | UMTS 1900 | RMC     | 24.5                        | 24.24                 | 0.15             | Body     | 0 mm                   | #1                                   | 05258                | 1:1        | back   | 2.170     | 1.062          | 2.305              |        |
| 1880.00                                  | 9400 | UMTS 1900 | RMC     | 24.5                        | 24.16                 | -0.10            | Body     | 0 mm                   | #1                                   | 05258                | 1:1        | back   | 2.170     | 1.081          | 2.346              |        |
| 1907.60                                  | 9538 | UMTS 1900 | RMC     | 24.5                        | 24.05                 | -0.07            | Body     | 0 mm                   | #1                                   | 05258                | 1:1        | back   | 2.150     | 1.109          | 2.384              |        |
| 1852.40                                  | 9262 | UMTS 1900 | RMC     | 24.5                        | 24.24                 | -0.12            | Body     | 0 mm                   | #3                                   | 05258                | 1:1        | front  | 2.210     | 1.062          | 2.347              |        |
| 1880.00                                  | 9400 | UMTS 1900 | RMC     | 24.5                        | 24.16                 | -0.13            | Body     | 0 mm                   | #3                                   | 05258                | 1:1        | front  | 2.200     | 1.081          | 2.378              |        |
| 1907.60                                  | 9538 | UMTS 1900 | RMC     | 24.5                        | 24.05                 | -0.14            | Body     | 0 mm                   | #3                                   | 05258                | 1:1        | front  | 2.160     | 1.109          | 2.395              |        |
| 1880.00                                  | 9400 | UMTS 1900 | RMC     | 24.5                        | 24.16                 | -0.02            | Body     | 0 mm                   | #1                                   | 05258                | 1:1        | bottom | 1.720     | 1.081          | 1.859              |        |
| 1880.00                                  | 9400 | UMTS 1900 | RMC     | 24.5                        | 24.16                 | 0.02             | Body     | 0 mm                   | #1                                   | 05258                | 1:1        | left   | 0.126     | 1.081          | 0.136              |        |
| 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: 1) Green entries represent additional Phablet SAR Position (DD #1: 0 degrees) 2) Light orange entries represent additional Phablet SAR Position (DD #3: 360 degrees)

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 172 of 224                 |

**Table 11-55**  
**LTE Band 66 (AWS) Phablet SAR**

| MEASUREMENT RESULTS                      |        |      |                   |                                      |                             |                       |                  |          |                                           |               |            |         |           |         |        |            |           |                |                    |        |
|------------------------------------------|--------|------|-------------------|--------------------------------------|-----------------------------|-----------------------|------------------|----------|-------------------------------------------|---------------|------------|---------|-----------|---------|--------|------------|-----------|----------------|--------------------|--------|
| FREQUENCY                                |        | Mode | Bandwidth [MHz]   | Dual Display Accessory Configuration | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Ant                                       | 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)             |        |
| 1770.00                                  | 132572 | High | LTE Band 66 (AWS) | -                                    | 25.5                        | 25.36                 | 0.12             | 0        | Ant 2                                     | 05282         | QPSK       | 1       | 0         | 2 mm    | back   | 1:1        | 1.790     | 1.033          | 1.849              |        |
| 1770.00                                  | 132572 | High | LTE Band 66 (AWS) | -                                    | 24.5                        | 24.40                 | 0.14             | 1        | Ant 2                                     | 05282         | QPSK       | 50      | 0         | 2 mm    | back   | 1:1        | 1.450     | 1.023          | 1.483              |        |
| 1770.00                                  | 132572 | High | LTE Band 66 (AWS) | -                                    | 25.5                        | 25.36                 | 0.07             | 0        | Ant 2                                     | 05282         | QPSK       | 1       | 0         | 1 mm    | front  | 1:1        | 1.660     | 1.033          | 1.715              |        |
| 1770.00                                  | 132572 | High | LTE Band 66 (AWS) | -                                    | 24.5                        | 24.40                 | 0.12             | 1        | Ant 2                                     | 05282         | QPSK       | 50      | 0         | 1 mm    | front  | 1:1        | 1.360     | 1.023          | 1.391              |        |
| 1770.00                                  | 132572 | High | LTE Band 66 (AWS) | -                                    | 25.5                        | 25.36                 | 0.04             | 0        | Ant 2                                     | 05282         | QPSK       | 1       | 0         | 4 mm    | bottom | 1:1        | 1.620     | 1.033          | 1.673              |        |
| 1770.00                                  | 132572 | High | LTE Band 66 (AWS) | -                                    | 24.5                        | 24.40                 | 0.02             | 1        | Ant 2                                     | 05282         | QPSK       | 50      | 0         | 4 mm    | bottom | 1:1        | 1.320     | 1.023          | 1.350              |        |
| 1770.00                                  | 132572 | High | LTE Band 66 (AWS) | -                                    | 25.5                        | 25.36                 | 0.01             | 0        | Ant 2                                     | 05282         | QPSK       | 1       | 0         | 0 mm    | left   | 1:1        | 0.560     | 1.033          | 0.578              |        |
| 1770.00                                  | 132572 | High | LTE Band 66 (AWS) | -                                    | 24.5                        | 24.40                 | 0.03             | 1        | Ant 2                                     | 05282         | QPSK       | 50      | 0         | 0 mm    | left   | 1:1        | 0.448     | 1.023          | 0.458              |        |
| 1770.00                                  | 132572 | High | LTE Band 66 (AWS) | -                                    | 22.5                        | 21.84                 | 0.03             | 0        | Ant 2                                     | 05282         | QPSK       | 1       | 0         | 0 mm    | back   | 1:1        | 1.620     | 1.164          | 1.886              |        |
| 1770.00                                  | 132572 | High | LTE Band 66 (AWS) | -                                    | 22.5                        | 21.76                 | 0.03             | 0        | Ant 2                                     | 05282         | QPSK       | 50      | 0         | 0 mm    | back   | 1:1        | 1.650     | 1.186          | 1.957              |        |
| 1770.00                                  | 132572 | High | LTE Band 66 (AWS) | -                                    | 22.5                        | 21.84                 | -0.03            | 0        | Ant 2                                     | 05282         | QPSK       | 1       | 0         | 0 mm    | front  | 1:1        | 1.460     | 1.164          | 1.699              |        |
| 1770.00                                  | 132572 | High | LTE Band 66 (AWS) | -                                    | 22.5                        | 21.76                 | -0.02            | 0        | Ant 2                                     | 05282         | QPSK       | 50      | 0         | 0 mm    | front  | 1:1        | 1.490     | 1.186          | 1.767              |        |
| 1770.00                                  | 132572 | High | LTE Band 66 (AWS) | -                                    | 22.5                        | 21.84                 | 0.00             | 0        | Ant 2                                     | 05282         | QPSK       | 1       | 0         | 0 mm    | bottom | 1:1        | 1.690     | 1.164          | 1.967              |        |
| 1720.00                                  | 132072 | Low  | LTE Band 66 (AWS) | -                                    | 22.5                        | 21.72                 | 0.02             | 0        | Ant 2                                     | 05282         | QPSK       | 50      | 25        | 0 mm    | bottom | 1:1        | 1.520     | 1.197          | 1.819              |        |
| 1745.00                                  | 132322 | Mid  | LTE Band 66 (AWS) | -                                    | 22.5                        | 21.74                 | 0.02             | 0        | Ant 2                                     | 05282         | QPSK       | 50      | 25        | 0 mm    | bottom | 1:1        | 1.610     | 1.191          | 1.918              |        |
| 1770.00                                  | 132572 | High | LTE Band 66 (AWS) | -                                    | 22.5                        | 21.76                 | 0.03             | 0        | Ant 2                                     | 05282         | QPSK       | 50      | 0         | 0 mm    | bottom | 1:1        | 1.730     | 1.186          | 2.052              |        |
| 1770.00                                  | 132572 | High | LTE Band 66 (AWS) | -                                    | 22.5                        | 21.74                 | 0.02             | 0        | Ant 2                                     | 05282         | QPSK       | 100     | 0         | 0 mm    | bottom | 1:1        | 1.710     | 1.191          | 2.037              |        |
| 1720.00                                  | 132072 | Low  | LTE Band 66 (AWS) | #1                                   | 24.5                        | 23.57                 | 0.08             | 0        | Ant 2                                     | 05274         | QPSK       | 1       | 99        | 0 mm    | back   | 1:1        | 1.970     | 1.239          | 2.441              |        |
| 1745.00                                  | 132322 | Mid  | LTE Band 66 (AWS) | #1                                   | 24.5                        | 23.82                 | 0.15             | 0        | Ant 2                                     | 05274         | QPSK       | 1       | 50        | 0 mm    | back   | 1:1        | 2.220     | 1.169          | 2.595              |        |
| 1770.00                                  | 132572 | High | LTE Band 66 (AWS) | #1                                   | 24.5                        | 23.99                 | 0.10             | 0        | Ant 2                                     | 05274         | QPSK       | 1       | 0         | 0 mm    | back   | 1:1        | 2.350     | 1.125          | 2.644              | A72    |
| 1720.00                                  | 132072 | Low  | LTE Band 66 (AWS) | #3                                   | 24.5                        | 23.57                 | 0.20             | 0        | Ant 2                                     | 05274         | QPSK       | 1       | 99        | 0 mm    | front  | 1:1        | 1.970     | 1.239          | 2.441              |        |
| 1745.00                                  | 132322 | Mid  | LTE Band 66 (AWS) | #3                                   | 24.5                        | 23.82                 | 0.14             | 0        | Ant 2                                     | 05274         | QPSK       | 1       | 50        | 0 mm    | front  | 1:1        | 2.080     | 1.169          | 2.432              |        |
| 1770.00                                  | 132572 | High | LTE Band 66 (AWS) | #3                                   | 24.5                        | 23.99                 | 0.21             | 0        | Ant 2                                     | 05274         | QPSK       | 1       | 0         | 0 mm    | front  | 1:1        | 2.060     | 1.125          | 2.318              |        |
| 1770.00                                  | 132572 | High | LTE Band 66 (AWS) | #1                                   | 24.5                        | 23.99                 | -0.05            | 0        | Ant 2                                     | 05274         | QPSK       | 1       | 0         | 0 mm    | bottom | 1:1        | 1.430     | 1.125          | 1.609              |        |
| 1770.00                                  | 132572 | High | LTE Band 66 (AWS) | #1                                   | 24.5                        | 23.99                 | -0.14            | 0        | Ant 2                                     | 05274         | QPSK       | 1       | 0         | 0 mm    | left   | 1:1        | 0.156     | 1.125          | 0.176              |        |
| 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: 1) Green entries represent additional Phablet SAR Position (DD #1: 0 degrees) 2) Light orange entries represent additional Phablet SAR Position (DD #3: 360 degrees)

|                                         |                                                                                                                                                                                                              |                               |  |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |  | Page 173 of 224                                                                       |                                 |

**Table 11-56**  
**LTE Band 25 (PCS) Phablet SAR**

| MEASUREMENT RESULTS                      |       |      |                   |                                      |                             |                       |                  |                        |               |            |         |           |         |        |            |           |                |                    |        |
|------------------------------------------|-------|------|-------------------|--------------------------------------|-----------------------------|-----------------------|------------------|------------------------|---------------|------------|---------|-----------|---------|--------|------------|-----------|----------------|--------------------|--------|
| FREQUENCY                                |       | Mode | Bandwidth [MHz]   | Dual Display Accessory Configuration | 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)             |        |
| 1860.00                                  | 26140 | Low  | LTE Band 25 (PCS) | -                                    | 25.5                        | 24.64                 | 0.15             | 0                      | 05282         | QPSK       | 1       | 99        | 2 mm    | back   | 1:1        | 1.910     | 1.219          | 2.328              |        |
| 1882.50                                  | 26365 | Mid  | LTE Band 25 (PCS) | -                                    | 25.5                        | 24.91                 | 0.16             | 0                      | 05282         | QPSK       | 1       | 99        | 2 mm    | back   | 1:1        | 1.950     | 1.146          | 2.235              |        |
| 1905.00                                  | 26590 | High | LTE Band 25 (PCS) | -                                    | 25.5                        | 24.86                 | 0.15             | 0                      | 05282         | QPSK       | 1       | 99        | 2 mm    | back   | 1:1        | 1.990     | 1.159          | 2.306              |        |
| 1882.50                                  | 26365 | Mid  | LTE Band 25 (PCS) | -                                    | 24.5                        | 23.99                 | 0.13             | 1                      | 05282         | QPSK       | 50      | 50        | 2 mm    | back   | 1:1        | 1.640     | 1.125          | 1.845              |        |
| 1905.00                                  | 26590 | High | LTE Band 25 (PCS) | -                                    | 24.5                        | 23.85                 | 0.14             | 1                      | 05282         | QPSK       | 100     | 0         | 2 mm    | back   | 1:1        | 1.650     | 1.161          | 1.916              |        |
| 1860.00                                  | 26140 | Low  | LTE Band 25 (PCS) | -                                    | 25.5                        | 24.64                 | -0.06            | 0                      | 05282         | QPSK       | 1       | 99        | 1 mm    | front  | 1:1        | 1.950     | 1.219          | 2.377              |        |
| 1882.50                                  | 26365 | Mid  | LTE Band 25 (PCS) | -                                    | 25.5                        | 24.91                 | 0.05             | 0                      | 05282         | QPSK       | 1       | 99        | 1 mm    | front  | 1:1        | 1.920     | 1.146          | 2.200              |        |
| 1905.00                                  | 26590 | High | LTE Band 25 (PCS) | -                                    | 25.5                        | 24.86                 | 0.04             | 0                      | 05282         | QPSK       | 1       | 99        | 1 mm    | front  | 1:1        | 1.970     | 1.159          | 2.283              |        |
| 1882.50                                  | 26365 | Mid  | LTE Band 25 (PCS) | -                                    | 24.5                        | 23.99                 | 0.08             | 1                      | 05282         | QPSK       | 50      | 50        | 1 mm    | front  | 1:1        | 1.640     | 1.125          | 1.845              |        |
| 1905.00                                  | 26590 | High | LTE Band 25 (PCS) | -                                    | 24.5                        | 23.85                 | 0.13             | 1                      | 05282         | QPSK       | 100     | 0         | 1 mm    | front  | 1:1        | 1.610     | 1.161          | 1.869              |        |
| 1860.00                                  | 26140 | Low  | LTE Band 25 (PCS) | -                                    | 25.5                        | 24.64                 | -0.03            | 0                      | 05282         | QPSK       | 1       | 99        | 4 mm    | bottom | 1:1        | 1.970     | 1.219          | 2.401              |        |
| 1882.50                                  | 26365 | Mid  | LTE Band 25 (PCS) | -                                    | 25.5                        | 24.91                 | -0.09            | 0                      | 05282         | QPSK       | 1       | 99        | 4 mm    | bottom | 1:1        | 2.070     | 1.146          | 2.372              |        |
| 1905.00                                  | 26590 | High | LTE Band 25 (PCS) | -                                    | 25.5                        | 24.86                 | -0.13            | 0                      | 05282         | QPSK       | 1       | 99        | 4 mm    | bottom | 1:1        | 2.090     | 1.159          | 2.422              |        |
| 1882.50                                  | 26365 | Mid  | LTE Band 25 (PCS) | -                                    | 24.5                        | 23.99                 | -0.12            | 1                      | 05282         | QPSK       | 50      | 50        | 4 mm    | bottom | 1:1        | 1.760     | 1.125          | 1.980              |        |
| 1905.00                                  | 26590 | High | LTE Band 25 (PCS) | -                                    | 24.5                        | 23.85                 | -0.12            | 1                      | 05282         | QPSK       | 100     | 0         | 4 mm    | bottom | 1:1        | 1.790     | 1.161          | 2.078              |        |
| 1882.50                                  | 26365 | Mid  | LTE Band 25 (PCS) | -                                    | 25.5                        | 24.91                 | -0.05            | 0                      | 05282         | QPSK       | 1       | 99        | 0 mm    | left   | 1:1        | 0.614     | 1.146          | 0.704              |        |
| 1882.50                                  | 26365 | Mid  | LTE Band 25 (PCS) | -                                    | 24.5                        | 23.99                 | -0.03            | 1                      | 05282         | QPSK       | 50      | 50        | 0 mm    | left   | 1:1        | 0.499     | 1.125          | 0.561              |        |
| 1860.00                                  | 26140 | Low  | LTE Band 25 (PCS) | -                                    | 22.5                        | 21.89                 | -0.11            | 0                      | 05282         | QPSK       | 1       | 0         | 0 mm    | back   | 1:1        | 1.790     | 1.151          | 2.060              |        |
| 1882.50                                  | 26365 | Mid  | LTE Band 25 (PCS) | -                                    | 22.5                        | 21.78                 | -0.01            | 0                      | 05282         | QPSK       | 1       | 0         | 0 mm    | back   | 1:1        | 1.840     | 1.180          | 2.171              |        |
| 1905.00                                  | 26590 | High | LTE Band 25 (PCS) | -                                    | 22.5                        | 21.79                 | -0.12            | 0                      | 05282         | QPSK       | 1       | 0         | 0 mm    | back   | 1:1        | 1.840     | 1.178          | 2.168              |        |
| 1860.00                                  | 26140 | Low  | LTE Band 25 (PCS) | -                                    | 22.5                        | 21.98                 | -0.10            | 0                      | 05282         | QPSK       | 50      | 25        | 0 mm    | back   | 1:1        | 1.860     | 1.127          | 2.096              |        |
| 1882.50                                  | 26365 | Mid  | LTE Band 25 (PCS) | -                                    | 22.5                        | 21.91                 | -0.14            | 0                      | 05282         | QPSK       | 50      | 50        | 0 mm    | back   | 1:1        | 1.870     | 1.146          | 2.143              |        |
| 1905.00                                  | 26590 | High | LTE Band 25 (PCS) | -                                    | 22.5                        | 21.83                 | -0.14            | 0                      | 05282         | QPSK       | 50      | 50        | 0 mm    | back   | 1:1        | 1.870     | 1.167          | 2.182              |        |
| 1860.00                                  | 26140 | Low  | LTE Band 25 (PCS) | -                                    | 22.5                        | 21.81                 | -0.10            | 0                      | 05282         | QPSK       | 100     | 0         | 0 mm    | back   | 1:1        | 1.760     | 1.172          | 2.063              |        |
| 1860.00                                  | 26140 | Low  | LTE Band 25 (PCS) | -                                    | 22.5                        | 21.89                 | -0.08            | 0                      | 05282         | QPSK       | 1       | 0         | 0 mm    | front  | 1:1        | 1.510     | 1.151          | 1.738              |        |
| 1860.00                                  | 26140 | Low  | LTE Band 25 (PCS) | -                                    | 22.5                        | 21.98                 | 0.00             | 0                      | 05282         | QPSK       | 50      | 25        | 0 mm    | front  | 1:1        | 1.580     | 1.127          | 1.781              |        |
| 1860.00                                  | 26140 | Low  | LTE Band 25 (PCS) | -                                    | 22.5                        | 21.89                 | 0.07             | 0                      | 05282         | QPSK       | 1       | 0         | 0 mm    | bottom | 1:1        | 2.050     | 1.151          | 2.360              |        |
| 1882.50                                  | 26365 | Mid  | LTE Band 25 (PCS) | -                                    | 22.5                        | 21.78                 | 0.00             | 0                      | 05282         | QPSK       | 1       | 0         | 0 mm    | bottom | 1:1        | 2.150     | 1.180          | 2.537              |        |
| 1905.00                                  | 26590 | High | LTE Band 25 (PCS) | -                                    | 22.5                        | 21.79                 | 0.07             | 0                      | 05282         | QPSK       | 1       | 0         | 0 mm    | bottom | 1:1        | 2.240     | 1.178          | 2.639              |        |
| 1860.00                                  | 26140 | Low  | LTE Band 25 (PCS) | -                                    | 22.5                        | 21.98                 | 0.02             | 0                      | 05282         | QPSK       | 50      | 25        | 0 mm    | bottom | 1:1        | 2.150     | 1.127          | 2.423              |        |
| 1882.50                                  | 26365 | Mid  | LTE Band 25 (PCS) | -                                    | 22.5                        | 21.91                 | 0.03             | 0                      | 05282         | QPSK       | 50      | 50        | 0 mm    | bottom | 1:1        | 2.280     | 1.146          | 2.613              |        |
| 1905.00                                  | 26590 | High | LTE Band 25 (PCS) | -                                    | 22.5                        | 21.83                 | 0.03             | 0                      | 05282         | QPSK       | 50      | 50        | 0 mm    | bottom | 1:1        | 2.420     | 1.167          | 2.824              | A73    |
| 1860.00                                  | 26140 | Low  | LTE Band 25 (PCS) | -                                    | 22.5                        | 21.81                 | 0.06             | 0                      | 05282         | QPSK       | 100     | 0         | 0 mm    | bottom | 1:1        | 2.130     | 1.172          | 2.496              |        |
| 1860.00                                  | 26140 | Low  | LTE Band 25 (PCS) | #1                                   | 24.5                        | 23.86                 | -0.16            | 0                      | 05258         | QPSK       | 1       | 50        | 0 mm    | back   | 1:1        | 2.050     | 1.159          | 2.376              |        |
| 1882.50                                  | 26365 | Mid  | LTE Band 25 (PCS) | #1                                   | 24.5                        | 23.69                 | -0.13            | 0                      | 05258         | QPSK       | 1       | 99        | 0 mm    | back   | 1:1        | 2.070     | 1.205          | 2.494              |        |
| 1905.00                                  | 26590 | High | LTE Band 25 (PCS) | #1                                   | 24.5                        | 23.67                 | -0.19            | 0                      | 05258         | QPSK       | 1       | 0         | 0 mm    | back   | 1:1        | 2.110     | 1.211          | 2.555              |        |
| 1860.00                                  | 26140 | Low  | LTE Band 25 (PCS) | #3                                   | 24.5                        | 23.86                 | 0.01             | 0                      | 05258         | QPSK       | 1       | 50        | 0 mm    | front  | 1:1        | 1.950     | 1.159          | 2.260              |        |
| 1882.50                                  | 26365 | Mid  | LTE Band 25 (PCS) | #3                                   | 24.5                        | 23.69                 | -0.03            | 0                      | 05258         | QPSK       | 1       | 99        | 0 mm    | front  | 1:1        | 1.980     | 1.205          | 2.386              |        |
| 1905.00                                  | 26590 | High | LTE Band 25 (PCS) | #3                                   | 24.5                        | 23.67                 | -0.05            | 0                      | 05258         | QPSK       | 1       | 0         | 0 mm    | front  | 1:1        | 2.060     | 1.211          | 2.495              |        |
| 1860.00                                  | 26140 | Low  | LTE Band 25 (PCS) | #1                                   | 24.5                        | 23.86                 | -0.04            | 0                      | 05258         | QPSK       | 1       | 50        | 0 mm    | bottom | 1:1        | 1.540     | 1.159          | 1.785              |        |
| 1860.00                                  | 26140 | Low  | LTE Band 25 (PCS) | #1                                   | 24.5                        | 23.86                 | -0.03            | 0                      | 05258         | QPSK       | 1       | 50        | 0 mm    | left   | 1:1        | 0.114     | 1.159          | 0.132              |        |
| 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: 1) Green entries represent additional Phablet SAR Position (DD #1: 0 degrees) 2) Light orange entries represent additional Phablet SAR Position (DD #3: 360 degrees)

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                  | DUT Type:<br>Portable Handset |                                                                                       | Page 174 of 224                 |

**Table 11-57**  
**LTE Band 7 Phablet SAR**

| MEASUREMENT RESULTS                      |       |        |            |                 |                                      |                             |                       |                  |          |                        |            |         |           |         |        |            |           |                |                    |        |
|------------------------------------------|-------|--------|------------|-----------------|--------------------------------------|-----------------------------|-----------------------|------------------|----------|------------------------|------------|---------|-----------|---------|--------|------------|-----------|----------------|--------------------|--------|
| FREQUENCY                                |       |        | Mode       | Bandwidth [MHz] | Dual Display Accessory Configuration | 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              | -                                    | 25.5                        | 24.51                 | 0.04             | 0        | 05258                  | QPSK       | 1       | 0         | 2 mm    | back   | 1:1        | 1.990     | 1.256          | 2.499              |        |
| 2535.00                                  | 21100 | Mid    | LTE Band 7 | 20              | -                                    | 25.5                        | 24.69                 | 0.02             | 0        | 05258                  | QPSK       | 1       | 50        | 2 mm    | back   | 1:1        | 1.900     | 1.205          | 2.290              |        |
| 2560.00                                  | 21350 | High   | LTE Band 7 | 20              | -                                    | 25.5                        | 24.74                 | -0.04            | 0        | 05258                  | QPSK       | 1       | 99        | 2 mm    | back   | 1:1        | 2.000     | 1.191          | 2.382              |        |
| 2560.00                                  | 21350 | High   | LTE Band 7 | 20              | -                                    | 24.5                        | 23.83                 | 0.06             | 1        | 05258                  | QPSK       | 50      | 25        | 2 mm    | back   | 1:1        | 1.660     | 1.167          | 1.937              |        |
| 2510.00                                  | 20850 | Low    | LTE Band 7 | 20              | -                                    | 24.5                        | 23.72                 | 0.07             | 1        | 05258                  | QPSK       | 100     | 0         | 2 mm    | back   | 1:1        | 1.590     | 1.197          | 1.903              |        |
| 2510.00                                  | 20850 | Low    | LTE Band 7 | 20              | -                                    | 25.5                        | 24.51                 | 0.00             | 0        | 05258                  | QPSK       | 1       | 0         | 1 mm    | front  | 1:1        | 1.770     | 1.256          | 2.223              |        |
| 2535.00                                  | 21100 | Mid    | LTE Band 7 | 20              | -                                    | 25.5                        | 24.69                 | 0.08             | 0        | 05258                  | QPSK       | 1       | 50        | 1 mm    | front  | 1:1        | 1.800     | 1.205          | 2.169              |        |
| 2560.00                                  | 21350 | High   | LTE Band 7 | 20              | -                                    | 25.5                        | 24.74                 | 0.06             | 0        | 05258                  | QPSK       | 1       | 99        | 1 mm    | front  | 1:1        | 1.830     | 1.191          | 2.180              |        |
| 2560.00                                  | 21350 | High   | LTE Band 7 | 20              | -                                    | 24.5                        | 23.83                 | 0.02             | 1        | 05258                  | QPSK       | 50      | 25        | 1 mm    | front  | 1:1        | 1.520     | 1.167          | 1.774              |        |
| 2510.00                                  | 20850 | Low    | LTE Band 7 | 20              | -                                    | 24.5                        | 23.72                 | 0.08             | 1        | 05258                  | QPSK       | 100     | 0         | 1 mm    | front  | 1:1        | 1.420     | 1.197          | 1.700              |        |
| 2560.00                                  | 21350 | High   | LTE Band 7 | 20              | -                                    | 25.5                        | 24.74                 | -0.11            | 0        | 05258                  | QPSK       | 1       | 99        | 4 mm    | bottom | 1:1        | 1.440     | 1.191          | 1.715              |        |
| 2560.00                                  | 21350 | High   | LTE Band 7 | 20              | -                                    | 24.5                        | 23.83                 | -0.12            | 1        | 05258                  | QPSK       | 50      | 25        | 4 mm    | bottom | 1:1        | 1.180     | 1.167          | 1.377              |        |
| 2560.00                                  | 21350 | High   | LTE Band 7 | 20              | -                                    | 25.5                        | 24.74                 | -0.09            | 0        | 05258                  | QPSK       | 1       | 99        | 0 mm    | left   | 1:1        | 0.576     | 1.191          | 0.686              |        |
| 2560.00                                  | 21350 | High   | LTE Band 7 | 20              | -                                    | 24.5                        | 23.83                 | -0.09            | 1        | 05258                  | QPSK       | 50      | 25        | 0 mm    | left   | 1:1        | 0.489     | 1.167          | 0.571              |        |
| 2510.00                                  | 20850 | Low    | LTE Band 7 | 20              | -                                    | 23.5                        | 23.22                 | 0.17             | 0        | 05258                  | QPSK       | 1       | 99        | 0 mm    | back   | 1:1        | 2.350     | 1.067          | 2.507              |        |
| 2535.00                                  | 21100 | Mid    | LTE Band 7 | 20              | -                                    | 23.5                        | 22.61                 | 0.16             | 0        | 05258                  | QPSK       | 1       | 0         | 0 mm    | back   | 1:1        | 2.350     | 1.227          | 2.883              |        |
| 2560.00                                  | 21350 | High   | LTE Band 7 | 20              | -                                    | 23.5                        | 23.24                 | 0.12             | 0        | 05258                  | QPSK       | 1       | 0         | 0 mm    | back   | 1:1        | 2.580     | 1.062          | 2.740              |        |
| 2510.00                                  | 20850 | Low    | LTE Band 7 | 20              | -                                    | 23.5                        | 23.24                 | 0.18             | 0        | 05258                  | QPSK       | 50      | 25        | 0 mm    | back   | 1:1        | 2.470     | 1.062          | 2.623              |        |
| 2535.00                                  | 21100 | Mid    | LTE Band 7 | 20              | -                                    | 23.5                        | 22.73                 | 0.13             | 0        | 05258                  | QPSK       | 50      | 50        | 0 mm    | back   | 1:1        | 2.520     | 1.194          | 3.009              |        |
| 2560.00                                  | 21350 | High   | LTE Band 7 | 20              | -                                    | 23.5                        | 23.32                 | 0.14             | 0        | 05258                  | QPSK       | 50      | 25        | 0 mm    | back   | 1:1        | 2.660     | 1.042          | 2.772              |        |
| 2560.00                                  | 21350 | High   | LTE Band 7 | 20              | -                                    | 23.5                        | 23.21                 | 0.12             | 0        | 05258                  | QPSK       | 100     | 0         | 0 mm    | back   | 1:1        | 2.550     | 1.069          | 2.726              |        |
| 2560.00                                  | 21350 | High   | LTE Band 7 | 20              | -                                    | 23.5                        | 23.24                 | 0.11             | 0        | 05258                  | QPSK       | 1       | 0         | 0 mm    | front  | 1:1        | 1.840     | 1.062          | 1.954              |        |
| 2510.00                                  | 20850 | Low    | LTE Band 7 | 20              | -                                    | 23.5                        | 23.24                 | -0.12            | 0        | 05258                  | QPSK       | 50      | 25        | 0 mm    | front  | 1:1        | 1.880     | 1.062          | 1.997              |        |
| 2535.00                                  | 21100 | Mid    | LTE Band 7 | 20              | -                                    | 23.5                        | 22.73                 | -0.17            | 0        | 05258                  | QPSK       | 50      | 50        | 0 mm    | front  | 1:1        | 1.870     | 1.194          | 2.233              |        |
| 2560.00                                  | 21350 | High   | LTE Band 7 | 20              | -                                    | 23.5                        | 23.32                 | -0.17            | 0        | 05258                  | QPSK       | 50      | 25        | 0 mm    | front  | 1:1        | 1.920     | 1.042          | 2.001              |        |
| 2560.00                                  | 21350 | High   | LTE Band 7 | 20              | -                                    | 23.5                        | 23.21                 | -0.17            | 0        | 05258                  | QPSK       | 100     | 0         | 0 mm    | front  | 1:1        | 1.870     | 1.069          | 1.999              |        |
| 2510.00                                  | 20850 | Low    | LTE Band 7 | 20              | -                                    | 23.5                        | 23.22                 | -0.16            | 0        | 05258                  | QPSK       | 1       | 99        | 0 mm    | bottom | 1:1        | 2.460     | 1.067          | 2.625              |        |
| 2535.00                                  | 21100 | Mid    | LTE Band 7 | 20              | -                                    | 23.5                        | 22.61                 | -0.15            | 0        | 05258                  | QPSK       | 1       | 0         | 0 mm    | bottom | 1:1        | 2.410     | 1.227          | 2.957              |        |
| 2560.00                                  | 21350 | High   | LTE Band 7 | 20              | -                                    | 23.5                        | 23.24                 | -0.16            | 0        | 05258                  | QPSK       | 1       | 0         | 0 mm    | bottom | 1:1        | 2.380     | 1.062          | 2.528              |        |
| 2510.00                                  | 20850 | Low    | LTE Band 7 | 20              | -                                    | 23.5                        | 23.24                 | -0.12            | 0        | 05258                  | QPSK       | 50      | 25        | 0 mm    | bottom | 1:1        | 2.870     | 1.062          | 3.048              | A74    |
| 2535.00                                  | 21100 | Mid    | LTE Band 7 | 20              | -                                    | 23.5                        | 22.73                 | -0.16            | 0        | 05258                  | QPSK       | 50      | 50        | 0 mm    | bottom | 1:1        | 2.480     | 1.194          | 2.961              |        |
| 2560.00                                  | 21350 | High   | LTE Band 7 | 20              | -                                    | 23.5                        | 23.32                 | -0.14            | 0        | 05258                  | QPSK       | 50      | 25        | 0 mm    | bottom | 1:1        | 2.430     | 1.042          | 2.532              |        |
| 2560.00                                  | 21350 | High   | LTE Band 7 | 20              | -                                    | 23.5                        | 23.21                 | -0.16            | 0        | 05258                  | QPSK       | 100     | 0         | 0 mm    | bottom | 1:1        | 2.330     | 1.069          | 2.491              |        |
| 2510.00                                  | 20850 | Low    | LTE Band 7 | 20              | #1                                   | 24.5                        | 23.73                 | 0.13             | 0        | 05290                  | QPSK       | 1       | 0         | 0 mm    | back   | 1:1        | 1.570     | 1.194          | 1.875              |        |
| 2510.00                                  | 20850 | Low    | LTE Band 7 | 20              | #3                                   | 24.5                        | 23.73                 | -0.21            | 0        | 05290                  | QPSK       | 1       | 0         | 0 mm    | front  | 1:1        | 1.960     | 1.194          | 2.340              |        |
| 2535.00                                  | 21100 | Mid    | LTE Band 7 | 20              | #3                                   | 24.5                        | 23.71                 | -0.13            | 0        | 05290                  | QPSK       | 1       | 99        | 0 mm    | front  | 1:1        | 1.750     | 1.199          | 2.098              |        |
| 2560.00                                  | 21350 | High   | LTE Band 7 | 20              | #3                                   | 24.5                        | 23.67                 | -0.21            | 0        | 05290                  | QPSK       | 1       | 50        | 0 mm    | front  | 1:1        | 1.760     | 1.211          | 2.131              |        |
| 2510.00                                  | 20850 | Low    | LTE Band 7 | 20              | #1                                   | 24.5                        | 23.73                 | 0.06             | 0        | 05290                  | QPSK       | 1       | 0         | 0 mm    | bottom | 1:1        | 1.020     | 1.194          | 1.218              |        |
| 2510.00                                  | 20850 | Low    | LTE Band 7 | 20              | #1                                   | 24.5                        | 23.73                 | 0.14             | 0        | 05290                  | QPSK       | 1       | 0         | 0 mm    | left   | 1:1        | 0.088     | 1.194          | 0.105              |        |
| 2510.00                                  | 20850 | Low    | LTE Band 7 | 20              | -                                    | 23.5                        | 23.24                 | -0.12            | 0        | 05258                  | QPSK       | 50      | 25        | 0 mm    | bottom | 1:1        | 2.810     | 1.062          | 2.984              |        |
| 2560.00                                  | 21350 | High   | LTE Band 7 | 20              | -                                    | 23.5                        | 23.32                 | 0.13             | 0        | 05258                  | QPSK       | 50      | 25        | 0 mm    | back   | 1:1        | 2.620     | 1.042          | 2.730              |        |
| 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: 1) Blue entries represent variability measurements. 2) Green entries represent additional Phablet SAR Position (DD #1: 0 degrees) 3) Light orange entries represent additional Phablet SAR Position (DD #3: 360 degrees)

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 175 of 224                                                                       |                                 |

**Table 11-58**  
**LTE Band 41 Phablet SAR**

| MEASUREMENT RESULTS                                                                               |       |          |                 |                                      |                             |                       |                  |          |                                                      |            |         |           |         |      |            |           |                |                    |        |     |
|---------------------------------------------------------------------------------------------------|-------|----------|-----------------|--------------------------------------|-----------------------------|-----------------------|------------------|----------|------------------------------------------------------|------------|---------|-----------|---------|------|------------|-----------|----------------|--------------------|--------|-----|
| FREQUENCY                                                                                         |       | Mode     | Bandwidth [MHz] | Dual Display Accessory Configuration | 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)             |        |     |
| 2680.00                                                                                           | 41490 | High     | LTE Band 41     | 20                                   | -                           | 25.5                  | 25.24            | -0.12    | 0                                                    | 05258      | QPSK    | 1         | 50      | 2 mm | back       | 1:1.58    | 0.892          | 1.062              | 0.947  |     |
| 2680.00                                                                                           | 41490 | High     | LTE Band 41     | 20                                   | -                           | 24.5                  | 24.31            | -0.18    | 1                                                    | 05258      | QPSK    | 50        | 25      | 2 mm | back       | 1:1.58    | 0.722          | 1.045              | 0.754  |     |
| 2680.00                                                                                           | 41490 | High     | LTE Band 41     | 20                                   | -                           | 25.5                  | 25.24            | -0.20    | 0                                                    | 05258      | QPSK    | 1         | 50      | 1 mm | front      | 1:1.58    | 0.990          | 1.062              | 1.051  |     |
| 2680.00                                                                                           | 41490 | High     | LTE Band 41     | 20                                   | -                           | 24.5                  | 24.31            | 0.09     | 1                                                    | 05258      | QPSK    | 50        | 25      | 1 mm | front      | 1:1.58    | 0.813          | 1.045              | 0.850  |     |
| 2680.00                                                                                           | 41490 | High     | LTE Band 41     | 20                                   | -                           | 25.5                  | 25.24            | -0.08    | 0                                                    | 05258      | QPSK    | 1         | 50      | 4 mm | bottom     | 1:1.58    | 0.807          | 1.062              | 0.857  |     |
| 2680.00                                                                                           | 41490 | High     | LTE Band 41     | 20                                   | -                           | 24.5                  | 24.31            | -0.07    | 1                                                    | 05258      | QPSK    | 50        | 25      | 4 mm | bottom     | 1:1.58    | 0.661          | 1.045              | 0.691  |     |
| 2680.00                                                                                           | 41490 | High     | LTE Band 41     | 20                                   | -                           | 25.5                  | 25.24            | -0.17    | 0                                                    | 05258      | QPSK    | 1         | 50      | 0 mm | left       | 1:1.58    | 0.286          | 1.062              | 0.304  |     |
| 2680.00                                                                                           | 41490 | High     | LTE Band 41     | 20                                   | -                           | 24.5                  | 24.31            | -0.14    | 1                                                    | 05258      | QPSK    | 50        | 25      | 0 mm | left       | 1:1.58    | 0.231          | 1.045              | 0.241  |     |
| 2506.00                                                                                           | 39750 | Low      | LTE Band 41     | 20                                   | -                           | 25.0                  | 24.81            | 0.17     | 0                                                    | 05258      | QPSK    | 1         | 99      | 0 mm | back       | 1:1.58    | 1.910          | 1.045              | 1.996  |     |
| 2549.50                                                                                           | 40185 | Low-Mid  | LTE Band 41     | 20                                   | -                           | 25.0                  | 24.82            | 0.17     | 0                                                    | 05258      | QPSK    | 1         | 99      | 0 mm | back       | 1:1.58    | 1.960          | 1.042              | 2.042  |     |
| 2593.00                                                                                           | 40620 | Mid      | LTE Band 41     | 20                                   | -                           | 25.0                  | 24.91            | 0.18     | 0                                                    | 05258      | QPSK    | 1         | 50      | 0 mm | back       | 1:1.58    | 2.030          | 1.021              | 2.073  |     |
| 2636.50                                                                                           | 41055 | Mid-High | LTE Band 41     | 20                                   | -                           | 25.0                  | 24.87            | 0.18     | 0                                                    | 05258      | QPSK    | 1         | 50      | 0 mm | back       | 1:1.58    | 1.880          | 1.030              | 1.936  |     |
| 2680.00                                                                                           | 41490 | High     | LTE Band 41     | 20                                   | -                           | 25.0                  | 24.94            | 0.15     | 0                                                    | 05258      | QPSK    | 1         | 50      | 0 mm | back       | 1:1.58    | 1.490          | 1.014              | 1.511  |     |
| 2680.00                                                                                           | 41490 | High     | LTE Band 41     | 20                                   | -                           | 24.5                  | 24.50            | 0.19     | 1                                                    | 05258      | QPSK    | 50        | 25      | 0 mm | back       | 1:1.58    | 1.430          | 1.000              | 1.430  |     |
| 2680.00                                                                                           | 41490 | High     | LTE Band 41     | 20                                   | -                           | 24.5                  | 24.38            | 0.18     | 1                                                    | 05258      | QPSK    | 100       | 0       | 0 mm | back       | 1:1.58    | 1.410          | 1.028              | 1.449  |     |
| 2680.00                                                                                           | 41490 | High     | LTE Band 41     | 20                                   | -                           | 25.0                  | 24.94            | -0.19    | 0                                                    | 05258      | QPSK    | 1         | 50      | 0 mm | front      | 1:1.58    | 1.300          | 1.014              | 1.318  |     |
| 2680.00                                                                                           | 41490 | High     | LTE Band 41     | 20                                   | -                           | 24.5                  | 24.50            | -0.11    | 1                                                    | 05258      | QPSK    | 50        | 25      | 0 mm | front      | 1:1.58    | 1.250          | 1.000              | 1.250  |     |
| 2506.00                                                                                           | 39750 | Low      | LTE Band 41     | 20                                   | -                           | 25.0                  | 24.81            | -0.20    | 0                                                    | 05258      | QPSK    | 1         | 99      | 0 mm | bottom     | 1:1.58    | 2.270          | 1.045              | 2.372  | A75 |
| 2549.50                                                                                           | 40185 | Low-Mid  | LTE Band 41     | 20                                   | -                           | 25.0                  | 24.82            | -0.13    | 0                                                    | 05258      | QPSK    | 1         | 99      | 0 mm | bottom     | 1:1.58    | 2.030          | 1.042              | 2.115  |     |
| 2593.00                                                                                           | 40620 | Mid      | LTE Band 41     | 20                                   | -                           | 25.0                  | 24.91            | 0.05     | 0                                                    | 05258      | QPSK    | 1         | 50      | 0 mm | bottom     | 1:1.58    | 2.000          | 1.021              | 2.042  |     |
| 2636.50                                                                                           | 41055 | Mid-High | LTE Band 41     | 20                                   | -                           | 25.0                  | 24.87            | -0.11    | 0                                                    | 05258      | QPSK    | 1         | 50      | 0 mm | bottom     | 1:1.58    | 1.860          | 1.030              | 1.916  |     |
| 2680.00                                                                                           | 41490 | High     | LTE Band 41     | 20                                   | -                           | 25.0                  | 24.94            | -0.01    | 0                                                    | 05258      | QPSK    | 1         | 50      | 0 mm | bottom     | 1:1.58    | 1.660          | 1.014              | 1.683  |     |
| 2506.00                                                                                           | 39750 | Low      | LTE Band 41     | 20                                   | -                           | 24.5                  | 24.38            | 0.06     | 1                                                    | 05258      | QPSK    | 50        | 50      | 0 mm | bottom     | 1:1.58    | 2.180          | 1.028              | 2.241  |     |
| 2549.50                                                                                           | 40185 | Low-Mid  | LTE Band 41     | 20                                   | -                           | 24.5                  | 24.38            | 0.04     | 1                                                    | 05258      | QPSK    | 50        | 50      | 0 mm | bottom     | 1:1.58    | 1.980          | 1.028              | 2.035  |     |
| 2593.00                                                                                           | 40620 | Mid      | LTE Band 41     | 20                                   | -                           | 24.5                  | 24.35            | 0.02     | 1                                                    | 05258      | QPSK    | 50        | 25      | 0 mm | bottom     | 1:1.58    | 1.920          | 1.035              | 1.987  |     |
| 2636.50                                                                                           | 41055 | Mid-High | LTE Band 41     | 20                                   | -                           | 24.5                  | 24.39            | 0.01     | 1                                                    | 05258      | QPSK    | 50        | 25      | 0 mm | bottom     | 1:1.58    | 1.790          | 1.026              | 1.837  |     |
| 2680.00                                                                                           | 41490 | High     | LTE Band 41     | 20                                   | -                           | 24.5                  | 24.50            | -0.02    | 1                                                    | 05258      | QPSK    | 50        | 25      | 0 mm | bottom     | 1:1.58    | 1.600          | 1.000              | 1.600  |     |
| 2680.00                                                                                           | 41490 | High     | LTE Band 41     | 20                                   | -                           | 24.5                  | 24.38            | -0.01    | 1                                                    | 05258      | QPSK    | 100       | 0       | 0 mm | bottom     | 1:1.58    | 1.580          | 1.028              | 1.624  |     |
| 2680.00                                                                                           | 41490 | High     | LTE Band 41     | 20                                   | #1                          | 25.5                  | 25.24            | 0.02     | 0                                                    | 05258      | QPSK    | 1         | 50      | 0 mm | back       | 1:1.58    | 0.988          | 1.062              | 1.049  |     |
| 2680.00                                                                                           | 41490 | High     | LTE Band 41     | 20                                   | #3                          | 25.5                  | 25.24            | -0.08    | 0                                                    | 05258      | QPSK    | 1         | 50      | 0 mm | front      | 1:1.58    | 1.410          | 1.062              | 1.497  |     |
| 2680.00                                                                                           | 41490 | High     | LTE Band 41     | 20                                   | #1                          | 25.5                  | 25.24            | -0.09    | 0                                                    | 05258      | QPSK    | 1         | 50      | 0 mm | bottom     | 1:1.58    | 0.657          | 1.062              | 0.698  |     |
| 2680.00                                                                                           | 41490 | High     | LTE Band 41     | 20                                   | #1                          | 25.5                  | 25.24            | -0.16    | 0                                                    | 05258      | QPSK    | 1         | 50      | 0 mm | left       | 1:1.58    | 0.110          | 1.062              | 0.117  |     |
| 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: 1) Green entries represent additional Phablet SAR Position (DD #1: 0 degrees) 2) Light orange entries represent additional Phablet SAR Position (DD #3: 360 degrees)

|                                         |                                                                                                                                  |                               |  |                                                                                       |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset |  | Page 176 of 224                                                                       |                                 |

**Table 11-59**  
**NR Band n66 (AWS) Phablet SAR**

| MEASUREMENT RESULTS                      |        |        |                   |                 |            |                             |                       |                  |          |                        |            |            |         |           |         |       |            |           |                |                    |        |
|------------------------------------------|--------|--------|-------------------|-----------------|------------|-----------------------------|-----------------------|------------------|----------|------------------------|------------|------------|---------|-----------|---------|-------|------------|-----------|----------------|--------------------|--------|
| FREQUENCY                                |        |        | Mode              | Bandwidth [MHz] | Cover Type | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | MPR [dB] | Serial Number          | Waveform   | 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              | #1         | 24.5                        | 23.90                 | 0.05             | 0        | 05191                  | DFT-S-OFDM | QPSK       | 1       | 104       | 0 mm    | right | 1:1        | 2.260     | 1.148          | 2.594              |        |
| 1745.00                                  | 349000 | Mid    | NR Band n66 (AWS) | 20              | #1         | 24.5                        | 23.60                 | -0.01            | 0        | 05191                  | DFT-S-OFDM | QPSK       | 1       | 104       | 0 mm    | right | 1:1        | 2.560     | 1.230          | 3.149              |        |
| 1770.00                                  | 354000 | High   | NR Band n66 (AWS) | 20              | #1         | 24.5                        | 23.82                 | 0.03             | 0        | 05191                  | DFT-S-OFDM | QPSK       | 1       | 104       | 0 mm    | right | 1:1        | 2.710     | 1.169          | 3.168              |        |
| 1770.00                                  | 354000 | High   | NR Band n66 (AWS) | 20              | #3         | 24.5                        | 23.82                 | -0.01            | 0        | 05191                  | DFT-S-OFDM | QPSK       | 1       | 104       | 0 mm    | right | 1:1        | 2.520     | 1.169          | 2.946              |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | -          | 24.0                        | 23.46                 | 0.02             | 0        | 05209                  | DFT-S-OFDM | QPSK       | 1       | 1         | 0 mm    | right | 1:1        | 2.560     | 1.132          | 2.898              |        |
| 1745.00                                  | 349000 | Mid    | NR Band n66 (AWS) | 20              | -          | 24.0                        | 23.29                 | -0.04            | 0        | 05209                  | DFT-S-OFDM | QPSK       | 1       | 53        | 0 mm    | right | 1:1        | 2.570     | 1.178          | 3.027              |        |
| 1770.00                                  | 354000 | High   | NR Band n66 (AWS) | 20              | -          | 24.0                        | 23.25                 | -0.04            | 0        | 05209                  | DFT-S-OFDM | QPSK       | 1       | 53        | 0 mm    | right | 1:1        | 2.540     | 1.189          | 3.020              |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | -          | 24.0                        | 23.37                 | 0.04             | 0        | 05209                  | DFT-S-OFDM | QPSK       | 50      | 0         | 0 mm    | right | 1:1        | 2.540     | 1.156          | 2.936              |        |
| 1745.00                                  | 349000 | Mid    | NR Band n66 (AWS) | 20              | -          | 24.0                        | 23.34                 | 0.01             | 0        | 05209                  | DFT-S-OFDM | QPSK       | 50      | 28        | 0 mm    | right | 1:1        | 2.720     | 1.164          | 3.166              | A76    |
| 1770.00                                  | 354000 | High   | NR Band n66 (AWS) | 20              | -          | 24.0                        | 23.29                 | -0.02            | 0        | 05209                  | DFT-S-OFDM | QPSK       | 50      | 28        | 0 mm    | right | 1:1        | 2.590     | 1.178          | 3.051              |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | -          | 24.0                        | 23.36                 | -0.07            | 0        | 05209                  | DFT-S-OFDM | QPSK       | 100     | 0         | 0 mm    | right | 1:1        | 2.580     | 1.159          | 2.990              |        |
| 1720.00                                  | 344000 | Low    | NR Band n66 (AWS) | 20              | -          | 24.0                        | 23.17                 | -0.04            | 0        | 05209                  | CP-OFDM    | QPSK       | 1       | 1         | 0 mm    | right | 1:1        | 2.400     | 1.211          | 2.906              |        |
| 1745.00                                  | 349000 | Mid    | NR Band n66 (AWS) | 20              | -          | 24.0                        | 23.34                 | 0.01             | 0        | 05209                  | DFT-S-OFDM | QPSK       | 50      | 28        | 0 mm    | right | 1:1        | 2.600     | 1.164          | 3.026              |        |
| 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: 1) Blue entry represents variability measurement. 2) Green entries represent additional Phablet SAR Position (DD #1: 0 degrees) 3) Light orange entries represent additional Phablet SAR Position (DD #3: 360 degrees)

**Table 11-60**  
**WLAN Phablet SAR**

| MEASUREMENT RESULTS                      |     |         |         |                 |                             |                       |                  |                        |                 |                                      |                      |                  |       |                |                            |           |                        |                             |                    |        |
|------------------------------------------|-----|---------|---------|-----------------|-----------------------------|-----------------------|------------------|------------------------|-----------------|--------------------------------------|----------------------|------------------|-------|----------------|----------------------------|-----------|------------------------|-----------------------------|--------------------|--------|
| FREQUENCY                                |     | Mode    | Service | Bandwidth [MHz] | Maximum Allowed Power [dBm] | Conducted Power [dBm] | Power Drift [dB] | Spacing                | Antenna Config. | Dual Display Accessory Configuration | Device Serial Number | Data Rate (Mbps) | Side  | Duty Cycle (%) | Peak SAR of Area Scan W/kg | SAR (10g) | Scaling Factor (Power) | Scaling Factor (Duty Cycle) | Reported SAR (10g) | Plot # |
| MHz                                      | Ch. |         |         |                 |                             |                       |                  |                        |                 |                                      |                      |                  |       |                |                            | (W/kg)    |                        |                             | (W/kg)             |        |
| 5260                                     | 52  | 802.11a | OFDM    | 20              | 17.0                        | 16.87                 | -0.15            | 0 mm                   | 1               | -                                    | 05381                | 6                | back  | 98.3           | 6.209                      | 1.010     | 1.030                  | 1.017                       | 1.058              |        |
| 5280                                     | 56  | 802.11a | OFDM    | 20              | 19.0                        | 18.87                 | 0.01             | 0 mm                   | 1               | -                                    | 05381                | 6                | back  | 98.3           | 10.186                     | 1.490     | 1.030                  | 1.017                       | 1.561              |        |
| 5320                                     | 64  | 802.11a | OFDM    | 20              | 17.0                        | 16.85                 | -0.16            | 0 mm                   | 1               | -                                    | 05381                | 6                | back  | 98.3           | 5.702                      | 0.952     | 1.035                  | 1.017                       | 1.002              |        |
| 5280                                     | 56  | 802.11a | OFDM    | 20              | 19.0                        | 18.87                 | 0.17             | 0 mm                   | 1               | #1                                   | 05381                | 6                | back  | 98.3           | 7.177                      | 1.090     | 1.030                  | 1.017                       | 1.142              |        |
| 5280                                     | 56  | 802.11a | OFDM    | 20              | 19.0                        | 18.87                 | 0.19             | 0 mm                   | 1               | -                                    | 05381                | 6                | front | 98.3           | 1.859                      | 0.296     | 1.030                  | 1.017                       | 0.310              |        |
| 5280                                     | 56  | 802.11a | OFDM    | 20              | 19.0                        | 18.87                 | 0.17             | 0 mm                   | 1               | -                                    | 05381                | 6                | top   | 98.3           | 2.240                      | -         | 1.030                  | 1.017                       | -                  |        |
| 5280                                     | 56  | 802.11a | OFDM    | 20              | 19.0                        | 18.87                 | 0.15             | 0 mm                   | 1               | -                                    | 05381                | 6                | left  | 98.3           | 4.097                      | 0.421     | 1.030                  | 1.017                       | 0.441              |        |
| 5280                                     | 56  | 802.11a | OFDM    | 20              | 19.0                        | 18.85                 | 0.01             | 0 mm                   | 2               | -                                    | 05381                | 6                | back  | 96.4           | 5.423                      | 0.444     | 1.035                  | 1.037                       | 0.477              |        |
| 5280                                     | 56  | 802.11a | OFDM    | 20              | 19.0                        | 18.85                 | 0.17             | 0 mm                   | 2               | #1                                   | 05381                | 6                | back  | 96.4           | 2.681                      | 0.286     | 1.035                  | 1.037                       | 0.307              |        |
| 5280                                     | 56  | 802.11a | OFDM    | 20              | 19.0                        | 18.85                 | 0.14             | 0 mm                   | 2               | -                                    | 05381                | 6                | front | 96.4           | 1.914                      | -         | 1.035                  | 1.037                       | -                  |        |
| 5280                                     | 56  | 802.11a | OFDM    | 20              | 19.0                        | 18.85                 | 0.12             | 0 mm                   | 2               | -                                    | 05381                | 6                | top   | 96.4           | 1.106                      | -         | 1.035                  | 1.037                       | -                  |        |
| 5280                                     | 56  | 802.11a | OFDM    | 20              | 19.0                        | 18.85                 | 0.18             | 0 mm                   | 2               | -                                    | 05381                | 6                | left  | 96.4           | 1.950                      | -         | 1.035                  | 1.037                       | -                  |        |
| 5720                                     | 144 | 802.11a | OFDM    | 20              | 17.0                        | 16.96                 | -0.05            | 0 mm                   | 1               | -                                    | 05381                | 6                | back  | 98.3           | 4.134                      | 0.685     | 1.009                  | 1.017                       | 0.703              |        |
| 5720                                     | 144 | 802.11a | OFDM    | 20              | 17.0                        | 16.96                 | 0.19             | 0 mm                   | 1               | #1                                   | 05381                | 6                | back  | 98.3           | 4.041                      | 0.461     | 1.009                  | 1.017                       | 0.473              |        |
| 5720                                     | 144 | 802.11a | OFDM    | 20              | 17.0                        | 16.96                 | 0.17             | 0 mm                   | 1               | -                                    | 05381                | 6                | front | 98.3           | 0.285                      | 0.032     | 1.009                  | 1.017                       | 0.033              |        |
| 5720                                     | 144 | 802.11a | OFDM    | 20              | 17.0                        | 16.96                 | 0.15             | 0 mm                   | 1               | -                                    | 05381                | 6                | top   | 98.3           | 0.636                      | -         | 1.009                  | 1.017                       | -                  |        |
| 5720                                     | 144 | 802.11a | OFDM    | 20              | 17.0                        | 16.96                 | 0.17             | 0 mm                   | 1               | -                                    | 05381                | 6                | left  | 98.3           | 1.329                      | -         | 1.009                  | 1.017                       | -                  |        |
| 5600                                     | 120 | 802.11a | OFDM    | 20              | 17.0                        | 16.78                 | 0.13             | 0 mm                   | 2               | -                                    | 05381                | 6                | back  | 96.4           | 4.843                      | 0.677     | 1.052                  | 1.037                       | 0.739              |        |
| 5600                                     | 120 | 802.11a | OFDM    | 20              | 17.0                        | 16.78                 | 0.19             | 0 mm                   | 2               | #1                                   | 05381                | 6                | back  | 96.4           | 4.013                      | 0.438     | 1.052                  | 1.037                       | 0.478              |        |
| 5600                                     | 120 | 802.11a | OFDM    | 20              | 17.0                        | 16.78                 | -0.14            | 0 mm                   | 2               | -                                    | 05381                | 6                | front | 96.4           | 1.572                      | -         | 1.052                  | 1.037                       | -                  |        |
| 5600                                     | 120 | 802.11a | OFDM    | 20              | 17.0                        | 16.78                 | 0.16             | 0 mm                   | 2               | -                                    | 05381                | 6                | top   | 96.4           | 1.086                      | -         | 1.052                  | 1.037                       | -                  |        |
| 5600                                     | 120 | 802.11a | OFDM    | 20              | 17.0                        | 16.78                 | 0.19             | 0 mm                   | 2               | -                                    | 05381                | 6                | left  | 96.4           | 2.032                      | -         | 1.052                  | 1.037                       | -                  |        |
| 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: 1) Green entries represent additional Phablet SAR Position (DD #1: 0 degrees)

|                                         |                                                                                     |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                  | DUT Type:<br>Portable Handset | Page 177 of 224                                                                       |                                 |

**Table 11-61  
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 Diff [dB] | Spacing                                   | Antenna Config. | Dual Display Accessory Configuration | 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              | 17.0                                | 16.89                         | 17.0                                | 16.63                         | 0.12            | 0 mm                                      | MIMO            | -                                    | 05381                | 13               | back  | 98.2           | 8.926                 | 1.330     | 1.089                  | 1.018                       | 1.474              | A77    |
| 5280                                     | 56  | 802.11n | OFDM    | 20              | 19.0                                | 18.76                         | 19.0                                | 18.61                         | 0.16            | 0 mm                                      | MIMO            | -                                    | 05381                | 13               | back  | 98.2           | 11.447                | 2.130     | 1.094                  | 1.018                       | 2.372              |        |
| 5320                                     | 64  | 802.11n | OFDM    | 20              | 17.0                                | 16.87                         | 17.0                                | 16.73                         | -0.16           | 0 mm                                      | MIMO            | -                                    | 05381                | 13               | back  | 98.2           | 10.124                | 1.350     | 1.064                  | 1.018                       | 1.462              |        |
| 5280                                     | 56  | 802.11n | OFDM    | 20              | 19.0                                | 18.76                         | 19.0                                | 18.61                         | 0.17            | 0 mm                                      | MIMO            | #1                                   | 05381                | 13               | back  | 98.2           | 10.708                | 1.260     | 1.094                  | 1.018                       | 1.403              |        |
| 5280                                     | 56  | 802.11n | OFDM    | 20              | 19.0                                | 18.76                         | 19.0                                | 18.61                         | 0.18            | 0 mm                                      | MIMO            | -                                    | 05381                | 13               | front | 98.2           | 3.529                 | 0.570     | 1.094                  | 1.018                       | 0.635              |        |
| 5280                                     | 56  | 802.11n | OFDM    | 20              | 19.0                                | 18.76                         | 19.0                                | 18.61                         | 0.03            | 0 mm                                      | MIMO            | -                                    | 05381                | 13               | top   | 98.2           | 3.541                 | -         | 1.094                  | 1.018                       | -                  |        |
| 5280                                     | 56  | 802.11n | OFDM    | 20              | 19.0                                | 18.76                         | 19.0                                | 18.61                         | 0.16            | 0 mm                                      | MIMO            | -                                    | 05381                | 13               | left  | 98.2           | 7.327                 | 0.610     | 1.094                  | 1.018                       | 0.679              |        |
| 5600                                     | 120 | 802.11n | OFDM    | 20              | 17.0                                | 16.93                         | 17.0                                | 16.66                         | 0.02            | 0 mm                                      | MIMO            | -                                    | 05381                | 13               | back  | 98.2           | 9.767                 | 1.590     | 1.081                  | 1.018                       | 1.750              |        |
| 5600                                     | 120 | 802.11n | OFDM    | 20              | 17.0                                | 16.93                         | 17.0                                | 16.66                         | 0.13            | 0 mm                                      | MIMO            | #1                                   | 05381                | 13               | back  | 98.2           | 7.225                 | 0.947     | 1.081                  | 1.018                       | 1.042              |        |
| 5600                                     | 120 | 802.11n | OFDM    | 20              | 17.0                                | 16.93                         | 17.0                                | 16.66                         | -0.19           | 0 mm                                      | MIMO            | -                                    | 05381                | 13               | front | 98.2           | 1.897                 | 0.336     | 1.081                  | 1.018                       | 0.370              |        |
| 5600                                     | 120 | 802.11n | OFDM    | 20              | 17.0                                | 16.93                         | 17.0                                | 16.66                         | 0.18            | 0 mm                                      | MIMO            | -                                    | 05381                | 13               | top   | 98.2           | 1.570                 | -         | 1.081                  | 1.018                       | -                  |        |
| 5600                                     | 120 | 802.11n | OFDM    | 20              | 17.0                                | 16.93                         | 17.0                                | 16.66                         | -0.18           | 0 mm                                      | MIMO            | -                                    | 05381                | 13               | left  | 98.2           | 3.749                 | 0.290     | 1.081                  | 1.018                       | 0.319              |        |
| 5280                                     | 56  | 802.11n | OFDM    | 20              | 19.0                                | 18.76                         | 19.0                                | 18.61                         | -0.19           | 0 mm                                      | MIMO            | -                                    | 05381                | 13               | back  | 98.2           | 16.801                | 2.120     | 1.094                  | 1.018                       | 2.361              |        |
| 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:

- For channels 52, 64, 120 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. For channel 56 to achieve the 22.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 19.0 dBm.
- Blue entry represents variability measurement.
- Green entries represent additional Phablet SAR Position (DD #1: 0 degrees).

## 11.5 SAR Test Notes

General Notes:

- 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.
- Batteries are fully charged at the beginning of the SAR measurements.
- Liquid tissue depth was at least 15.0 cm for all frequencies.
- The orange highlights throughout the report represents the highest SAR per FCC Equipment Class reflected on the FCC Grant.
- 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.
- SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
- Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 10 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.
- 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.
- 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.
- 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).
- 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

|                                         |                                                                                                                                                                                                |                               |                                                                                       |                                 |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       | <br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                             | DUT Type:<br>Portable Handset | Page 178 of 224                                                                       |                                 |

mode does not apply or if wireless router 1g SAR > 1.2 W/kg. Additional SAR tests for phablet SAR were evaluated per KDB 616217 Section 6 (See Section 6.9 for more information)

12. Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the 1g thresholds for the equivalent test cases.
13. 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 was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).
14. SAR with the Dual Display Cover was measured for the configurations with the highest SAR reported for each exposure condition. Head SAR tests were performed with the accessory cover folded to 0 and 360 degrees to represent typical use conditions. Body-worn, Hotspot, and Phablet SAR tests were performed with accessory cover folded to 0, 180 and 360 degrees.
15. When the output power for dual-display cover in a given exposure condition was higher than the power without the dual display cover, additional tests were performed at the higher output power level.

#### 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.
4. GPRS was additionally evaluated for head and body-worn exposure conditions to address possible VoIP scenarios.

#### CDMA Notes:

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.

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 179 of 224                 |

#### 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 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 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. For LTE Band 5, 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.

#### NR Notes:

1. NR implementation is limited to EN-DC operations only. 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 in section 1-12).
4. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
5. 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.
6. For final implementation, NR slot configuration is synchronized using maximum duty cycle of 23.33%. SAR testing was performed using FTM mode with a 23.33% duty cycle applied to match final duty cycle.
7. 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.

|                                         |                                                                                                                                                                                                              |                               |                                                                                                 |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
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#### WLAN Notes:

1. For held-to-ear, 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) 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. 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.
5. 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.
6. 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.

#### 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.

Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G (including scenarios with inter-band ULCA active) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR and during inter-band ULCA active conditions to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G operations (including scenarios with inter-band ULCA active) is demonstrated in the Qualcomm Part 2 Report during algorithm validation.

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.

|                                         |                                                                                                                                  |                               |                                                                                                 |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
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| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset |                                                                                                 | Page 182 of 224                 |

## 12.3 Head SAR Simultaneous Transmission Analysis

**Table 12-1**  
**Simultaneous Transmission Scenario with 2.4 GHz WLAN (Held to Ear)**

| Configuration | 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          | CDMA/EVDO BC0 (\$22H)   | 0.167                   | 0.455                         | 0.770                         | 0.622               | 0.937 | 1.392        |
|               | PCS CDMA/EVDO           | 0.130                   | 0.455                         | 0.770                         | 0.585               | 0.900 | 1.355        |
|               | GSM 850                 | 0.125                   | 0.455                         | 0.770                         | 0.580               | 0.895 | 1.350        |
|               | GSM 1900                | 0.056                   | 0.455                         | 0.770                         | 0.511               | 0.826 | 1.281        |
|               | UMTS 850                | 0.155                   | 0.455                         | 0.770                         | 0.610               | 0.925 | 1.380        |
|               | UMTS 1750               | 0.096                   | 0.455                         | 0.770                         | 0.551               | 0.866 | 1.321        |
|               | UMTS 1900               | 0.112                   | 0.455                         | 0.770                         | 0.567               | 0.882 | 1.337        |
|               | LTE Band 71             | 0.124                   | 0.455                         | 0.770                         | 0.579               | 0.894 | 1.349        |
|               | LTE Band 12             | 0.137                   | 0.455                         | 0.770                         | 0.592               | 0.907 | 1.362        |
|               | LTE Band 13             | 0.164                   | 0.455                         | 0.770                         | 0.619               | 0.934 | 1.389        |
|               | LTE Band 14             | 0.128                   | 0.455                         | 0.770                         | 0.583               | 0.898 | 1.353        |
|               | LTE Band 5 (Cell)       | 0.180                   | 0.455                         | 0.770                         | 0.635               | 0.950 | 1.405        |
|               | LTE Band 66 (AWS)       | 0.130                   | 0.455                         | 0.770                         | 0.585               | 0.900 | 1.355        |
|               | LTE Band 66 Ant 3 (AWS) | 0.026                   | 0.455                         | 0.770                         | 0.481               | 0.796 | 1.251        |
|               | LTE Band 2 Ant 3 (PCS)  | 0.044                   | 0.455                         | 0.770                         | 0.499               | 0.814 | 1.269        |
|               | LTE Band 25 (PCS)       | 0.141                   | 0.455                         | 0.770                         | 0.596               | 0.911 | 1.366        |
|               | LTE Band 30             | 0.102                   | 0.455                         | 0.770                         | 0.557               | 0.872 | 1.327        |
|               | LTE Band 7              | 0.176                   | 0.455                         | 0.770                         | 0.631               | 0.946 | 1.401        |
|               | LTE Band 41             | 0.073                   | 0.455                         | 0.770                         | 0.528               | 0.843 | 1.298        |
|               | NR Band n71             | 0.007                   | 0.455                         | 0.770                         | 0.462               | 0.777 | 1.232        |
|               | NR Band n5 (Cell)       | 0.133                   | 0.455                         | 0.770                         | 0.588               | 0.903 | 1.358        |
|               | NR Band n66 (AWS)       | 0.133                   | 0.455                         | 0.770                         | 0.588               | 0.903 | 1.358        |
|               | NR Band n25 (PCS)       | 0.223                   | 0.455                         | 0.770                         | 0.678               | 0.993 | <b>1.448</b> |
|               | NR Band n41             | 0.062                   | 0.455                         | 0.770                         | 0.517               | 0.832 | 1.287        |

|                                         |                                                                                                                                                 |                               |                                                                                       |                                 |
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| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset |                                                                                       | Page 183 of 224                 |

**Table 12-2**  
**Simultaneous Transmission Scenario with 5 GHz WLAN (Held to Ear)**

| Configuration | Mode                    | 2G/3G/4G<br>/5G 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        |
| Head          | CDMA/EVDO BC0 (§22H)    | 0.167                         | 0.206                                | 0.307                                | 0.373               | 0.474 | 0.680        |
|               | PCS CDMA/EVDO           | 0.130                         | 0.206                                | 0.307                                | 0.336               | 0.437 | 0.643        |
|               | GSM 850                 | 0.125                         | 0.206                                | 0.307                                | 0.331               | 0.432 | 0.638        |
|               | GSM 1900                | 0.056                         | 0.206                                | 0.307                                | 0.262               | 0.363 | 0.569        |
|               | UMTS 850                | 0.155                         | 0.206                                | 0.307                                | 0.361               | 0.462 | 0.668        |
|               | UMTS 1750               | 0.096                         | 0.206                                | 0.307                                | 0.302               | 0.403 | 0.609        |
|               | UMTS 1900               | 0.112                         | 0.206                                | 0.307                                | 0.318               | 0.419 | 0.625        |
|               | LTE Band 71             | 0.124                         | 0.206                                | 0.307                                | 0.330               | 0.431 | 0.637        |
|               | LTE Band 12             | 0.137                         | 0.206                                | 0.307                                | 0.343               | 0.444 | 0.650        |
|               | LTE Band 13             | 0.164                         | 0.206                                | 0.307                                | 0.370               | 0.471 | 0.677        |
|               | LTE Band 14             | 0.128                         | 0.206                                | 0.307                                | 0.334               | 0.435 | 0.641        |
|               | LTE Band 5 (Cell)       | 0.180                         | 0.206                                | 0.307                                | 0.386               | 0.487 | 0.693        |
|               | LTE Band 66 (AWS)       | 0.130                         | 0.206                                | 0.307                                | 0.336               | 0.437 | 0.643        |
|               | LTE Band 66 Ant 3 (AWS) | 0.026                         | 0.206                                | 0.307                                | 0.232               | 0.333 | 0.539        |
|               | LTE Band 2 Ant 3 (PCS)  | 0.044                         | 0.206                                | 0.307                                | 0.250               | 0.351 | 0.557        |
|               | LTE Band 25 (PCS)       | 0.141                         | 0.206                                | 0.307                                | 0.347               | 0.448 | 0.654        |
|               | LTE Band 30             | 0.102                         | 0.206                                | 0.307                                | 0.308               | 0.409 | 0.615        |
|               | LTE Band 7              | 0.176                         | 0.206                                | 0.307                                | 0.382               | 0.483 | 0.689        |
|               | LTE Band 41             | 0.073                         | 0.206                                | 0.307                                | 0.279               | 0.380 | 0.586        |
|               | NR Band n71             | 0.007                         | 0.206                                | 0.307                                | 0.213               | 0.314 | 0.520        |
|               | NR Band n5 (Cell)       | 0.133                         | 0.206                                | 0.307                                | 0.339               | 0.440 | 0.646        |
|               | NR Band n66 (AWS)       | 0.133                         | 0.206                                | 0.307                                | 0.339               | 0.440 | 0.646        |
|               | NR Band n25 (PCS)       | 0.223                         | 0.206                                | 0.307                                | 0.429               | 0.530 | <b>0.736</b> |
|               | NR Band n41             | 0.062                         | 0.206                                | 0.307                                | 0.268               | 0.369 | 0.575        |

|                                         |                                                                                                                                                 |                               |                                                                                       |                                 |
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**Table 12-3**  
**Simultaneous Transmission Scenario with 2.4 GHz WLAN Ant 1 and 5 GHz WLAN Ant 2 (Held to Ear)**

| Configuration | Mode                    | 2G/3G/4G<br>/5G SAR<br>(W/kg) | 2.4 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 5 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | Σ SAR<br>(W/kg) |
|---------------|-------------------------|-------------------------------|----------------------------------------|--------------------------------------|-----------------|
|               |                         | 1                             | 2                                      | 3                                    | 1+2+3           |
| Head          | CDMA/EVDO BC0 (\$22H)   | 0.167                         | 0.455                                  | 0.307                                | 0.929           |
|               | PCS CDMA/EVDO           | 0.130                         | 0.455                                  | 0.307                                | 0.892           |
|               | GSM 850                 | 0.125                         | 0.455                                  | 0.307                                | 0.887           |
|               | GSM 1900                | 0.056                         | 0.455                                  | 0.307                                | 0.818           |
|               | UMTS 850                | 0.155                         | 0.455                                  | 0.307                                | 0.917           |
|               | UMTS 1750               | 0.096                         | 0.455                                  | 0.307                                | 0.858           |
|               | UMTS 1900               | 0.112                         | 0.455                                  | 0.307                                | 0.874           |
|               | LTE Band 71             | 0.124                         | 0.455                                  | 0.307                                | 0.886           |
|               | LTE Band 12             | 0.137                         | 0.455                                  | 0.307                                | 0.899           |
|               | LTE Band 13             | 0.164                         | 0.455                                  | 0.307                                | 0.926           |
|               | LTE Band 14             | 0.128                         | 0.455                                  | 0.307                                | 0.890           |
|               | LTE Band 5 (Cell)       | 0.180                         | 0.455                                  | 0.307                                | 0.942           |
|               | LTE Band 66 (AWS)       | 0.130                         | 0.455                                  | 0.307                                | 0.892           |
|               | LTE Band 66 Ant 3 (AWS) | 0.026                         | 0.455                                  | 0.307                                | 0.788           |
|               | LTE Band 2 Ant 3 (PCS)  | 0.044                         | 0.455                                  | 0.307                                | 0.806           |
|               | LTE Band 25 (PCS)       | 0.141                         | 0.455                                  | 0.307                                | 0.903           |
|               | LTE Band 30             | 0.102                         | 0.455                                  | 0.307                                | 0.864           |
|               | LTE Band 7              | 0.176                         | 0.455                                  | 0.307                                | 0.938           |
|               | LTE Band 41             | 0.073                         | 0.455                                  | 0.307                                | 0.835           |
|               | NR Band n71             | 0.007                         | 0.455                                  | 0.307                                | 0.769           |
|               | NR Band n5 (Cell)       | 0.133                         | 0.455                                  | 0.307                                | 0.895           |
|               | NR Band n66 (AWS)       | 0.133                         | 0.455                                  | 0.307                                | 0.895           |
|               | NR Band n25 (PCS)       | 0.223                         | 0.455                                  | 0.307                                | <b>0.985</b>    |
|               | NR Band n41             | 0.062                         | 0.455                                  | 0.307                                | 0.824           |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
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**Table 12-4**  
**Simultaneous Transmission Scenario with Bluetooth (Held to Ear)**

| Configuration | Mode                    | 2G/3G/4G<br>/5G SAR<br>(W/kg) | Bluetooth<br>SAR (W/kg) | $\Sigma$ SAR<br>(W/kg) |
|---------------|-------------------------|-------------------------------|-------------------------|------------------------|
|               |                         | 1                             | 2                       | 1+2                    |
| Head          | CDMA/EVDO BC0 (§22H)    | 0.167                         | 0.131                   | 0.298                  |
|               | PCS CDMA/EVDO           | 0.130                         | 0.131                   | 0.261                  |
|               | GSM 850                 | 0.125                         | 0.131                   | 0.256                  |
|               | GSM 1900                | 0.056                         | 0.131                   | 0.187                  |
|               | UMTS 850                | 0.155                         | 0.131                   | 0.286                  |
|               | UMTS 1750               | 0.096                         | 0.131                   | 0.227                  |
|               | UMTS 1900               | 0.112                         | 0.131                   | 0.243                  |
|               | LTE Band 71             | 0.124                         | 0.131                   | 0.255                  |
|               | LTE Band 12             | 0.137                         | 0.131                   | 0.268                  |
|               | LTE Band 13             | 0.164                         | 0.131                   | 0.295                  |
|               | LTE Band 14             | 0.128                         | 0.131                   | 0.259                  |
|               | LTE Band 5 (Cell)       | 0.180                         | 0.131                   | 0.311                  |
|               | LTE Band 66 (AWS)       | 0.130                         | 0.131                   | 0.261                  |
|               | LTE Band 66 Ant 3 (AWS) | 0.026                         | 0.131                   | 0.157                  |
|               | LTE Band 2 Ant 3 (PCS)  | 0.044                         | 0.131                   | 0.175                  |
|               | LTE Band 25 (PCS)       | 0.141                         | 0.131                   | 0.272                  |
|               | LTE Band 30             | 0.102                         | 0.131                   | 0.233                  |
|               | LTE Band 7              | 0.176                         | 0.131                   | 0.307                  |
|               | LTE Band 41             | 0.073                         | 0.131                   | 0.204                  |
|               | NR Band n71             | 0.007                         | 0.131                   | 0.138                  |
|               | NR Band n5 (Cell)       | 0.133                         | 0.131                   | 0.264                  |
|               | NR Band n66 (AWS)       | 0.133                         | 0.131                   | 0.264                  |
|               | NR Band n25 (PCS)       | 0.223                         | 0.131                   | <b>0.354</b>           |
|               | NR Band n41             | 0.062                         | 0.131                   | 0.193                  |

|                                         |                                                                                                                                                 |                               |                                                                                       |                                 |
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**Table 12-5**  
**Simultaneous Transmission Scenario with 2.4 GHz WLAN Antenna 2 and Bluetooth (Held to Ear)**

| Configuration | Mode                    | 2G/3G/4G<br>/5G SAR<br>(W/kg) | Bluetooth<br>SAR (W/kg) | 2.4 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | $\Sigma$ SAR (W/kg) |
|---------------|-------------------------|-------------------------------|-------------------------|----------------------------------------|---------------------|
|               |                         | 1                             | 2                       | 3                                      | 1+2+3               |
| Head          | CDMA/EVDO BC0 (\$22H)   | 0.167                         | 0.131                   | 0.770                                  | 1.068               |
|               | PCS CDMA/EVDO           | 0.130                         | 0.131                   | 0.770                                  | 1.031               |
|               | GSM 850                 | 0.125                         | 0.131                   | 0.770                                  | 1.026               |
|               | GSM 1900                | 0.056                         | 0.131                   | 0.770                                  | 0.957               |
|               | UMTS 850                | 0.155                         | 0.131                   | 0.770                                  | 1.056               |
|               | UMTS 1750               | 0.096                         | 0.131                   | 0.770                                  | 0.997               |
|               | UMTS 1900               | 0.112                         | 0.131                   | 0.770                                  | 1.013               |
|               | LTE Band 71             | 0.124                         | 0.131                   | 0.770                                  | 1.025               |
|               | LTE Band 12             | 0.137                         | 0.131                   | 0.770                                  | 1.038               |
|               | LTE Band 13             | 0.164                         | 0.131                   | 0.770                                  | 1.065               |
|               | LTE Band 14             | 0.128                         | 0.131                   | 0.770                                  | 1.029               |
|               | LTE Band 5 (Cell)       | 0.180                         | 0.131                   | 0.770                                  | 1.081               |
|               | LTE Band 66 (AWS)       | 0.130                         | 0.131                   | 0.770                                  | 1.031               |
|               | LTE Band 66 Ant 3 (AWS) | 0.026                         | 0.131                   | 0.770                                  | 0.927               |
|               | LTE Band 2 Ant 3 (PCS)  | 0.044                         | 0.131                   | 0.770                                  | 0.945               |
|               | LTE Band 25 (PCS)       | 0.141                         | 0.131                   | 0.770                                  | 1.042               |
|               | LTE Band 30             | 0.102                         | 0.131                   | 0.770                                  | 1.003               |
|               | LTE Band 7              | 0.176                         | 0.131                   | 0.770                                  | 1.077               |
|               | LTE Band 41             | 0.073                         | 0.131                   | 0.770                                  | 0.974               |
|               | NR Band n71             | 0.007                         | 0.131                   | 0.770                                  | 0.908               |
|               | NR Band n5 (Cell)       | 0.133                         | 0.131                   | 0.770                                  | 1.034               |
|               | NR Band n66 (AWS)       | 0.133                         | 0.131                   | 0.770                                  | 1.034               |
|               | NR Band n25 (PCS)       | 0.223                         | 0.131                   | 0.770                                  | <b>1.124</b>        |
|               | NR Band n41             | 0.062                         | 0.131                   | 0.770                                  | 0.963               |

|                                         |                                                                                                                                                 |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset |                                                                                       | Page 187 of 224                 |

**Table 12-6**  
**Simultaneous Transmission Scenario with 5 GHz WLAN and Bluetooth (Held to Ear)**

| Configuration | Mode                    | 2G/3G/4G<br>/5G 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) | $\Sigma$ SAR (W/kg) |       |              |
|---------------|-------------------------|-------------------------------|-------------------------|--------------------------------------|--------------------------------------|---------------------|-------|--------------|
|               |                         | 1                             | 2                       | 3                                    | 4                                    | 1+2+3               | 1+2+4 | 1+2+3+4      |
| Head          | CDMA/EVDO BC0 (\$22H)   | 0.167                         | 0.131                   | 0.206                                | 0.307                                | 0.504               | 0.605 | 0.811        |
|               | PCS CDMA/EVDO           | 0.130                         | 0.131                   | 0.206                                | 0.307                                | 0.467               | 0.568 | 0.774        |
|               | GSM 850                 | 0.125                         | 0.131                   | 0.206                                | 0.307                                | 0.462               | 0.563 | 0.769        |
|               | GSM 1900                | 0.056                         | 0.131                   | 0.206                                | 0.307                                | 0.393               | 0.494 | 0.700        |
|               | UMTS 850                | 0.155                         | 0.131                   | 0.206                                | 0.307                                | 0.492               | 0.593 | 0.799        |
|               | UMTS 1750               | 0.096                         | 0.131                   | 0.206                                | 0.307                                | 0.433               | 0.534 | 0.740        |
|               | UMTS 1900               | 0.112                         | 0.131                   | 0.206                                | 0.307                                | 0.449               | 0.550 | 0.756        |
|               | LTE Band 71             | 0.124                         | 0.131                   | 0.206                                | 0.307                                | 0.461               | 0.562 | 0.768        |
|               | LTE Band 12             | 0.137                         | 0.131                   | 0.206                                | 0.307                                | 0.474               | 0.575 | 0.781        |
|               | LTE Band 13             | 0.164                         | 0.131                   | 0.206                                | 0.307                                | 0.501               | 0.602 | 0.808        |
|               | LTE Band 14             | 0.128                         | 0.131                   | 0.206                                | 0.307                                | 0.465               | 0.566 | 0.772        |
|               | LTE Band 5 (Cell)       | 0.180                         | 0.131                   | 0.206                                | 0.307                                | 0.517               | 0.618 | 0.824        |
|               | LTE Band 66 (AWS)       | 0.130                         | 0.131                   | 0.206                                | 0.307                                | 0.467               | 0.568 | 0.774        |
|               | LTE Band 66 Ant 3 (AWS) | 0.026                         | 0.131                   | 0.206                                | 0.307                                | 0.363               | 0.464 | 0.670        |
|               | LTE Band 2 Ant 3 (PCS)  | 0.044                         | 0.131                   | 0.206                                | 0.307                                | 0.381               | 0.482 | 0.688        |
|               | LTE Band 25 (PCS)       | 0.141                         | 0.131                   | 0.206                                | 0.307                                | 0.478               | 0.579 | 0.785        |
|               | LTE Band 30             | 0.102                         | 0.131                   | 0.206                                | 0.307                                | 0.439               | 0.540 | 0.746        |
|               | LTE Band 7              | 0.176                         | 0.131                   | 0.206                                | 0.307                                | 0.513               | 0.614 | 0.820        |
|               | LTE Band 41             | 0.073                         | 0.131                   | 0.206                                | 0.307                                | 0.410               | 0.511 | 0.717        |
|               | NR Band n71             | 0.007                         | 0.131                   | 0.206                                | 0.307                                | 0.344               | 0.445 | 0.651        |
|               | NR Band n5 (Cell)       | 0.133                         | 0.131                   | 0.206                                | 0.307                                | 0.470               | 0.571 | 0.777        |
|               | NR Band n66 (AWS)       | 0.133                         | 0.131                   | 0.206                                | 0.307                                | 0.470               | 0.571 | 0.777        |
|               | NR Band n25 (PCS)       | 0.223                         | 0.131                   | 0.206                                | 0.307                                | 0.560               | 0.661 | <b>0.867</b> |
|               | NR Band n41             | 0.062                         | 0.131                   | 0.206                                | 0.307                                | 0.399               | 0.500 | 0.706        |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
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| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 188 of 224                 |

## 12.4 Body-Worn Simultaneous Transmission Analysis

**Table 12-7**  
**Simultaneous Transmission Scenario with 2.4 GHz WLAN (Body-Worn at 1.0 cm)**

| Configuration | Mode                    | 2G/3G/4G<br>/5G SAR<br>(W/kg) | 2.4 GHz<br>WLAN Ant<br>1 SAR<br>(W/kg) | 2.4 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | $\Sigma$ SAR (W/kg) |       |              |
|---------------|-------------------------|-------------------------------|----------------------------------------|----------------------------------------|---------------------|-------|--------------|
|               |                         | 1                             | 2                                      | 3                                      | 1+2                 | 1+3   | 1+2+3        |
| Body - Worn   | Cell. CDMA              | 0.612                         | 0.163                                  | 0.245                                  | 0.775               | 0.857 | 1.020        |
|               | PCS CDMA                | 0.848                         | 0.163                                  | 0.245                                  | 1.011               | 1.093 | 1.256        |
|               | GSM/GPRS 850            | 0.570                         | 0.163                                  | 0.245                                  | 0.733               | 0.815 | 0.978        |
|               | GSM/GPRS 1900           | 0.412                         | 0.163                                  | 0.245                                  | 0.575               | 0.657 | 0.820        |
|               | UMTS 850                | 0.578                         | 0.163                                  | 0.245                                  | 0.741               | 0.823 | 0.986        |
|               | UMTS 1750               | 0.773                         | 0.163                                  | 0.245                                  | 0.936               | 1.018 | 1.181        |
|               | UMTS 1900               | 0.853                         | 0.163                                  | 0.245                                  | 1.016               | 1.098 | 1.261        |
|               | LTE Band 71             | 0.364                         | 0.163                                  | 0.245                                  | 0.527               | 0.609 | 0.772        |
|               | LTE Band 12             | 0.393                         | 0.163                                  | 0.245                                  | 0.556               | 0.638 | 0.801        |
|               | LTE Band 13             | 0.427                         | 0.163                                  | 0.245                                  | 0.590               | 0.672 | 0.835        |
|               | LTE Band 14             | 0.427                         | 0.163                                  | 0.245                                  | 0.590               | 0.672 | 0.835        |
|               | LTE Band 5 (Cell)       | 0.612                         | 0.163                                  | 0.245                                  | 0.775               | 0.857 | 1.020        |
|               | LTE Band 66 (AWS)       | 0.820                         | 0.163                                  | 0.245                                  | 0.983               | 1.065 | 1.228        |
|               | LTE Band 66 Ant 3 (AWS) | 0.078                         | 0.163                                  | 0.245                                  | 0.241               | 0.323 | 0.486        |
|               | LTE Band 2 Ant 3 (PCS)  | 0.123                         | 0.163                                  | 0.245                                  | 0.286               | 0.368 | 0.531        |
|               | LTE Band 25 (PCS)       | 0.920                         | 0.163                                  | 0.245                                  | 1.083               | 1.165 | <b>1.328</b> |
|               | LTE Band 30             | 0.609                         | 0.163                                  | 0.245                                  | 0.772               | 0.854 | 1.017        |
|               | LTE Band 7              | 0.771                         | 0.163                                  | 0.245                                  | 0.934               | 1.016 | 1.179        |
|               | LTE Band 41             | 0.405                         | 0.163                                  | 0.245                                  | 0.568               | 0.650 | 0.813        |
|               | NR Band n71             | 0.050                         | 0.163                                  | 0.245                                  | 0.213               | 0.295 | 0.458        |
|               | NR Band n5 (Cell)       | 0.550                         | 0.163                                  | 0.245                                  | 0.713               | 0.795 | 0.958        |
|               | NR Band n66 (AWS)       | 0.406                         | 0.163                                  | 0.245                                  | 0.569               | 0.651 | 0.814        |
|               | NR Band n25 (PCS)       | 0.620                         | 0.163                                  | 0.245                                  | 0.783               | 0.865 | 1.028        |
|               | NR Band n41             | 0.571                         | 0.163                                  | 0.245                                  | 0.734               | 0.816 | 0.979        |

|                                         |                                                                                                                                  |                               |                                                                                                 |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset |                                                                                                 | Page 189 of 224                 |

**Table 12-8**  
**Simultaneous Transmission Scenario with 5 GHz WLAN (Body-Worn at 1.0 cm)**

| Configuration | 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) |       |              | SPLSR |      |      |
|---------------|-------------------------|-------------------------|-----------------------------|-----------------------------|---------------------|-------|--------------|-------|------|------|
|               |                         | 1                       | 2                           | 3                           | 1+2                 | 1+3   | 1+2+3        | 1+2   | 1+3  | 2+3  |
| Body - Worn   | Cell. CDMA              | 0.612                   | 0.495                       | 0.417                       | 1.107               | 1.029 | <b>1.524</b> | N/A   | N/A  | N/A  |
|               | PCS CDMA                | 0.848                   | 0.495                       | 0.417                       | 1.343               | 1.265 | See Note 1   | 0.01  | 0.01 | 0.04 |
|               | GSM/GPRS 850            | 0.570                   | 0.495                       | 0.417                       | 1.065               | 0.987 | 1.482        | N/A   | N/A  | N/A  |
|               | GSM/GPRS 1900           | 0.412                   | 0.495                       | 0.417                       | 0.907               | 0.829 | 1.324        | N/A   | N/A  | N/A  |
|               | UMTS 850                | 0.578                   | 0.495                       | 0.417                       | 1.073               | 0.995 | 1.490        | N/A   | N/A  | N/A  |
|               | UMTS 1750               | 0.773                   | 0.495                       | 0.417                       | 1.268               | 1.190 | See Note 1   | 0.01  | 0.01 | 0.04 |
|               | UMTS 1900               | 0.853                   | 0.495                       | 0.417                       | 1.348               | 1.270 | See Note 1   | 0.01  | 0.01 | 0.04 |
|               | LTE Band 71             | 0.364                   | 0.495                       | 0.417                       | 0.859               | 0.781 | 1.276        | N/A   | N/A  | N/A  |
|               | LTE Band 12             | 0.393                   | 0.495                       | 0.417                       | 0.888               | 0.810 | 1.305        | N/A   | N/A  | N/A  |
|               | LTE Band 13             | 0.427                   | 0.495                       | 0.417                       | 0.922               | 0.844 | 1.339        | N/A   | N/A  | N/A  |
|               | LTE Band 14             | 0.427                   | 0.495                       | 0.417                       | 0.922               | 0.844 | 1.339        | N/A   | N/A  | N/A  |
|               | LTE Band 5 (Cell)       | 0.612                   | 0.495                       | 0.417                       | 1.107               | 1.029 | <b>1.524</b> | N/A   | N/A  | N/A  |
|               | LTE Band 66 (AWS)       | 0.820                   | 0.495                       | 0.417                       | 1.315               | 1.237 | See Note 1   | 0.01  | 0.01 | 0.04 |
|               | LTE Band 66 Ant 3 (AWS) | 0.078                   | 0.495                       | 0.417                       | 0.573               | 0.495 | 0.990        | N/A   | N/A  | N/A  |
|               | LTE Band 2 Ant 3 (PCS)  | 0.123                   | 0.495                       | 0.417                       | 0.618               | 0.540 | 1.035        | N/A   | N/A  | N/A  |
|               | LTE Band 25 (PCS)       | 0.920                   | 0.495                       | 0.417                       | 1.415               | 1.337 | See Note 1   | 0.01  | 0.01 | 0.04 |
|               | LTE Band 30             | 0.609                   | 0.495                       | 0.417                       | 1.104               | 1.026 | 1.521        | N/A   | N/A  | N/A  |
|               | LTE Band 7              | 0.771                   | 0.495                       | 0.417                       | 1.266               | 1.188 | See Note 1   | 0.01  | 0.01 | 0.04 |
|               | LTE Band 41             | 0.405                   | 0.495                       | 0.417                       | 0.900               | 0.822 | 1.317        | N/A   | N/A  | N/A  |
|               | NR Band n71             | 0.050                   | 0.495                       | 0.417                       | 0.545               | 0.467 | 0.962        | N/A   | N/A  | N/A  |
|               | NR Band n5 (Cell)       | 0.550                   | 0.495                       | 0.417                       | 1.045               | 0.967 | 1.462        | N/A   | N/A  | N/A  |
|               | NR Band n66 (AWS)       | 0.406                   | 0.495                       | 0.417                       | 0.901               | 0.823 | 1.318        | N/A   | N/A  | N/A  |
|               | NR Band n25 (PCS)       | 0.620                   | 0.495                       | 0.417                       | 1.115               | 1.037 | 1.532        | N/A   | N/A  | N/A  |
|               | NR Band n41             | 0.571                   | 0.495                       | 0.417                       | 1.066               | 0.988 | 1.483        | N/A   | N/A  | N/A  |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
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| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 190 of 224                 |

**Table 12-9**  
**Simultaneous Transmission Scenario with 2.4 GHz WLAN Ant 1 and 5 GHz WLAN Ant 2 (Body-Worn at 1.0 cm)**

| Configuration | Mode                    | 2G/3G/4G /5G SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | $\Sigma$ SAR (W/kg) |
|---------------|-------------------------|-------------------------|-------------------------------|-----------------------------|---------------------|
|               |                         | 1                       | 2                             | 3                           | 1+2+3               |
| Body - Worn   | Cell. CDMA              | 0.612                   | 0.163                         | 0.417                       | 1.192               |
|               | PCS CDMA                | 0.848                   | 0.163                         | 0.417                       | 1.428               |
|               | GSM/GPRS 850            | 0.570                   | 0.163                         | 0.417                       | 1.150               |
|               | GSM/GPRS 1900           | 0.412                   | 0.163                         | 0.417                       | 0.992               |
|               | UMTS 850                | 0.578                   | 0.163                         | 0.417                       | 1.158               |
|               | UMTS 1750               | 0.773                   | 0.163                         | 0.417                       | 1.353               |
|               | UMTS 1900               | 0.853                   | 0.163                         | 0.417                       | 1.433               |
|               | LTE Band 71             | 0.364                   | 0.163                         | 0.417                       | 0.944               |
|               | LTE Band 12             | 0.393                   | 0.163                         | 0.417                       | 0.973               |
|               | LTE Band 13             | 0.427                   | 0.163                         | 0.417                       | 1.007               |
|               | LTE Band 14             | 0.427                   | 0.163                         | 0.417                       | 1.007               |
|               | LTE Band 5 (Cell)       | 0.612                   | 0.163                         | 0.417                       | 1.192               |
|               | LTE Band 66 (AWS)       | 0.820                   | 0.163                         | 0.417                       | 1.400               |
|               | LTE Band 66 Ant 3 (AWS) | 0.078                   | 0.163                         | 0.417                       | 0.658               |
|               | LTE Band 2 Ant 3 (PCS)  | 0.123                   | 0.163                         | 0.417                       | 0.703               |
|               | LTE Band 25 (PCS)       | 0.920                   | 0.163                         | 0.417                       | <b>1.500</b>        |
|               | LTE Band 30             | 0.609                   | 0.163                         | 0.417                       | 1.189               |
|               | LTE Band 7              | 0.771                   | 0.163                         | 0.417                       | 1.351               |
|               | LTE Band 41             | 0.405                   | 0.163                         | 0.417                       | 0.985               |
|               | NR Band n71             | 0.050                   | 0.163                         | 0.417                       | 0.630               |
|               | NR Band n5 (Cell)       | 0.550                   | 0.163                         | 0.417                       | 1.130               |
|               | NR Band n66 (AWS)       | 0.406                   | 0.163                         | 0.417                       | 0.986               |
|               | NR Band n25 (PCS)       | 0.620                   | 0.163                         | 0.417                       | 1.200               |
|               | NR Band n41             | 0.571                   | 0.163                         | 0.417                       | 1.151               |

|                                         |                                                                                                                                                                                                              |                               |  |                                                                                       |                                 |
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| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |  |                                                                                       | Page 191 of 224                 |

**Table 12-10**  
**Simultaneous Transmission Scenario with Bluetooth (Body-Worn at 1.0 cm)**

| Configuration | Mode                    | 2G/3G/4G /5G SAR (W/kg) | Bluetooth SAR (W/kg) | Σ SAR (W/kg) |
|---------------|-------------------------|-------------------------|----------------------|--------------|
|               |                         | 1                       | 2                    | 1+2          |
| Body - Worn   | Cell. CDMA              | 0.612                   | 0.023                | 0.635        |
|               | PCS CDMA                | 0.848                   | 0.023                | 0.871        |
|               | GSM/GPRS 850            | 0.570                   | 0.023                | 0.593        |
|               | GSM/GPRS 1900           | 0.412                   | 0.023                | 0.435        |
|               | UMTS 850                | 0.578                   | 0.023                | 0.601        |
|               | UMTS 1750               | 0.773                   | 0.023                | 0.796        |
|               | UMTS 1900               | 0.853                   | 0.023                | 0.876        |
|               | LTE Band 71             | 0.364                   | 0.023                | 0.387        |
|               | LTE Band 12             | 0.393                   | 0.023                | 0.416        |
|               | LTE Band 13             | 0.427                   | 0.023                | 0.450        |
|               | LTE Band 14             | 0.427                   | 0.023                | 0.450        |
|               | LTE Band 5 (Cell)       | 0.612                   | 0.023                | 0.635        |
|               | LTE Band 66 (AWS)       | 0.820                   | 0.023                | 0.843        |
|               | LTE Band 66 Ant 3 (AWS) | 0.078                   | 0.023                | 0.101        |
|               | LTE Band 2 Ant 3 (PCS)  | 0.123                   | 0.023                | 0.146        |
|               | LTE Band 25 (PCS)       | 0.920                   | 0.023                | <b>0.943</b> |
|               | LTE Band 30             | 0.609                   | 0.023                | 0.632        |
|               | LTE Band 7              | 0.771                   | 0.023                | 0.794        |
|               | LTE Band 41             | 0.405                   | 0.023                | 0.428        |
|               | NR Band n71             | 0.050                   | 0.023                | 0.073        |
|               | NR Band n5 (Cell)       | 0.550                   | 0.023                | 0.573        |
|               | NR Band n66 (AWS)       | 0.406                   | 0.023                | 0.429        |
|               | NR Band n25 (PCS)       | 0.620                   | 0.023                | 0.643        |
|               | NR Band n41             | 0.571                   | 0.023                | 0.594        |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
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| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 192 of 224                                                                       |                                 |

**Table 12-11**  
**Simultaneous Transmission Scenario with 2.4 GHz WLAN Antenna 2 and Bluetooth (Body-Worn at 1.0 cm)**

| Configuration | Mode                    | 2G/3G/4G<br>/5G SAR<br>(W/kg) | Bluetooth<br>SAR (W/kg) | 2.4 GHz<br>WLAN Ant<br>2 SAR<br>(W/kg) | $\Sigma$ SAR<br>(W/kg) |
|---------------|-------------------------|-------------------------------|-------------------------|----------------------------------------|------------------------|
|               |                         | 1                             | 2                       | 3                                      | 1+2+3                  |
| Body - Worn   | Cell. CDMA              | 0.612                         | 0.023                   | 0.245                                  | 0.880                  |
|               | PCS CDMA                | 0.848                         | 0.023                   | 0.245                                  | 1.116                  |
|               | GSM/GPRS 850            | 0.570                         | 0.023                   | 0.245                                  | 0.838                  |
|               | GSM/GPRS 1900           | 0.412                         | 0.023                   | 0.245                                  | 0.680                  |
|               | UMTS 850                | 0.578                         | 0.023                   | 0.245                                  | 0.846                  |
|               | UMTS 1750               | 0.773                         | 0.023                   | 0.245                                  | 1.041                  |
|               | UMTS 1900               | 0.853                         | 0.023                   | 0.245                                  | 1.121                  |
|               | LTE Band 71             | 0.364                         | 0.023                   | 0.245                                  | 0.632                  |
|               | LTE Band 12             | 0.393                         | 0.023                   | 0.245                                  | 0.661                  |
|               | LTE Band 13             | 0.427                         | 0.023                   | 0.245                                  | 0.695                  |
|               | LTE Band 14             | 0.427                         | 0.023                   | 0.245                                  | 0.695                  |
|               | LTE Band 5 (Cell)       | 0.612                         | 0.023                   | 0.245                                  | 0.880                  |
|               | LTE Band 66 (AWS)       | 0.820                         | 0.023                   | 0.245                                  | 1.088                  |
|               | LTE Band 2 Ant 3 (PCS)  | 0.123                         | 0.023                   | 0.245                                  | 0.391                  |
|               | LTE Band 25 (PCS)       | 0.920                         | 0.023                   | 0.245                                  | <b>1.188</b>           |
|               | LTE Band 30             | 0.609                         | 0.023                   | 0.245                                  | 0.877                  |
|               | LTE Band 7              | 0.771                         | 0.023                   | 0.245                                  | 1.039                  |
|               | LTE Band 66 Ant 3 (AWS) | 0.078                         | 0.023                   | 0.245                                  | 0.346                  |
|               | LTE Band 41             | 0.405                         | 0.023                   | 0.245                                  | 0.673                  |
|               | NR Band n71             | 0.050                         | 0.023                   | 0.245                                  | 0.318                  |
|               | NR Band n5 (Cell)       | 0.550                         | 0.023                   | 0.245                                  | 0.818                  |
|               | NR Band n66 (AWS)       | 0.406                         | 0.023                   | 0.245                                  | 0.674                  |
|               | NR Band n25 (PCS)       | 0.620                         | 0.023                   | 0.245                                  | 0.888                  |
|               | NR Band n41             | 0.571                         | 0.023                   | 0.245                                  | 0.839                  |

|                                         |                                                                                                                                                                                                              |                               |                                                                                                 |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                                 | Page 193 of 224                 |

**Table 12-12**  
**Simultaneous Transmission Scenario with 5 GHz WLAN and Bluetooth (Body-Worn at 1.0 cm)**

| Configuration | Mode                   | 2G/3G/4G<br>/5G 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) | $\Sigma$ SAR (W/kg) |       |            | SPLSR |      |      |      |      |      |
|---------------|------------------------|-------------------------------|-------------------------|--------------------------------------|--------------------------------------|---------------------|-------|------------|-------|------|------|------|------|------|
|               |                        | 1                             | 2                       | 3                                    | 4                                    | 1+2+3               | 1+2+4 | 1+2+3+4    | 1+2   | 1+3  | 1+4  | 2+3  | 2+4  | 3+4  |
| Body - Worn   | Cell. CDMA             | 0.612                         | 0.023                   | 0.495                                | 0.417                                | 1.130               | 1.052 | 1.547      | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  |
|               | PCS CDMA               | 0.848                         | 0.023                   | 0.495                                | 0.417                                | 1.366               | 1.288 | See Note 1 | 0.01  | 0.01 | 0.01 | 0.02 | 0.01 | 0.04 |
|               | GSM/GPRS 850           | 0.570                         | 0.023                   | 0.495                                | 0.417                                | 1.088               | 1.010 | 1.505      | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  |
|               | GSM/GPRS 1900          | 0.412                         | 0.023                   | 0.495                                | 0.417                                | 0.930               | 0.852 | 1.347      | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  |
|               | UMTS 850               | 0.578                         | 0.023                   | 0.495                                | 0.417                                | 1.096               | 1.018 | 1.513      | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  |
|               | UMTS 1750              | 0.773                         | 0.023                   | 0.495                                | 0.417                                | 1.291               | 1.213 | See Note 1 | 0.00  | 0.01 | 0.01 | 0.02 | 0.01 | 0.04 |
|               | UMTS 1900              | 0.853                         | 0.023                   | 0.495                                | 0.417                                | 1.371               | 1.293 | See Note 1 | 0.01  | 0.01 | 0.01 | 0.02 | 0.01 | 0.04 |
|               | LTE Band 71            | 0.364                         | 0.023                   | 0.495                                | 0.417                                | 0.882               | 0.804 | 1.299      | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  |
|               | LTE Band 12            | 0.393                         | 0.023                   | 0.495                                | 0.417                                | 0.911               | 0.833 | 1.328      | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  |
|               | LTE Band 13            | 0.427                         | 0.023                   | 0.495                                | 0.417                                | 0.945               | 0.867 | 1.362      | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  |
|               | LTE Band 14            | 0.427                         | 0.023                   | 0.495                                | 0.417                                | 0.945               | 0.867 | 1.362      | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  |
|               | LTE Band 5 (Cell)      | 0.612                         | 0.023                   | 0.495                                | 0.417                                | 1.130               | 1.052 | 1.547      | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  |
|               | LTE Band 66 (AWS)      | 0.820                         | 0.023                   | 0.495                                | 0.417                                | 1.338               | 1.260 | See Note 1 | 0.01  | 0.01 | 0.01 | 0.02 | 0.01 | 0.04 |
|               | LTE Band 66 Ant 3      | 0.078                         | 0.023                   | 0.495                                | 0.417                                | 0.596               | 0.518 | 1.013      | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  |
|               | LTE Band 2 Ant 3 (PCS) | 0.123                         | 0.023                   | 0.495                                | 0.417                                | 0.641               | 0.563 | 1.058      | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  |
|               | LTE Band 25 (PCS)      | 0.920                         | 0.023                   | 0.495                                | 0.417                                | 1.438               | 1.360 | See Note 1 | 0.01  | 0.01 | 0.01 | 0.02 | 0.01 | 0.04 |
|               | LTE Band 30            | 0.609                         | 0.023                   | 0.495                                | 0.417                                | 1.127               | 1.049 | 1.544      | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  |
|               | LTE Band 7             | 0.771                         | 0.023                   | 0.495                                | 0.417                                | 1.289               | 1.211 | See Note 1 | 0.01  | 0.01 | 0.01 | 0.02 | 0.01 | 0.04 |
|               | LTE Band 41            | 0.405                         | 0.023                   | 0.495                                | 0.417                                | 0.923               | 0.845 | 1.340      | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  |
|               | NR Band n71            | 0.050                         | 0.023                   | 0.495                                | 0.417                                | 0.568               | 0.490 | 0.985      | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  |
|               | NR Band n5 (Cell)      | 0.550                         | 0.023                   | 0.495                                | 0.417                                | 1.068               | 0.990 | 1.485      | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  |
|               | NR Band n66 (AWS)      | 0.406                         | 0.023                   | 0.495                                | 0.417                                | 0.924               | 0.846 | 1.341      | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  |
|               | NR Band n25 (PCS)      | 0.620                         | 0.023                   | 0.495                                | 0.417                                | 1.138               | 1.060 | 1.555      | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  |
|               | NR Band n41            | 0.571                         | 0.023                   | 0.495                                | 0.417                                | 1.089               | 1.011 | 1.506      | N/A   | N/A  | N/A  | N/A  | N/A  | N/A  |

**Notes:**

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: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset | Page 194 of 224                                                                       |                                 |

## 12.5 Hotspot SAR Simultaneous Transmission Analysis

**Table 12-13**  
**Simultaneous Transmission Scenario with 2.4 GHz WLAN (Hotspot at 1.0 cm)**

| Configuration | 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       | EVDO BC0 (\$22H)        | 0.566                        | 0.360                         | 0.311                         | 0.926               | 0.877        | 1.237           |
|               | PCS EVDO                | 0.939                        | 0.360                         | 0.311                         | 1.299               | 1.250        | See Table Below |
|               | GPRS 850                | 0.570                        | 0.360                         | 0.311                         | 0.930               | 0.881        | 1.241           |
|               | GPRS 1900               | 0.899                        | 0.360                         | 0.311                         | 1.259               | 1.210        | 1.570           |
|               | UMTS 850                | 0.578                        | 0.360                         | 0.311                         | 0.938               | 0.889        | 1.249           |
|               | UMTS 1750               | 0.794                        | 0.360                         | 0.311                         | 1.154               | 1.105        | 1.465           |
|               | UMTS 1900               | 0.915                        | 0.360                         | 0.311                         | 1.275               | 1.226        | <b>1.586</b>    |
|               | LTE Band 71             | 0.364                        | 0.360                         | 0.311                         | 0.724               | 0.675        | 1.035           |
|               | LTE Band 12             | 0.393                        | 0.360                         | 0.311                         | 0.753               | 0.704        | 1.064           |
|               | LTE Band 13             | 0.427                        | 0.360                         | 0.311                         | 0.787               | 0.738        | 1.098           |
|               | LTE Band 14             | 0.427                        | 0.360                         | 0.311                         | 0.787               | 0.738        | 1.098           |
|               | LTE Band 5 (Cell)       | 0.612                        | 0.360                         | 0.311                         | 0.972               | 0.923        | 1.283           |
|               | LTE Band 66 (AWS)       | 0.776                        | 0.360                         | 0.311                         | 1.136               | 1.087        | 1.447           |
|               | LTE Band 66 Ant 3 (AWS) | 0.129                        | 0.360                         | 0.311                         | 0.489               | 0.440        | 0.800           |
|               | LTE Band 2 Ant 3 (PCS)  | 0.281                        | 0.360                         | 0.311                         | 0.641               | 0.592        | 0.952           |
|               | LTE Band 25 (PCS)       | 0.987                        | 0.360                         | 0.311                         | 1.347               | 1.298        | See Table Below |
|               | LTE Band 30             | 0.929                        | 0.360                         | 0.311                         | 1.289               | 1.240        | See Table Below |
|               | LTE Band 7              | 0.814                        | 0.360                         | 0.311                         | 1.174               | 1.125        | 1.485           |
|               | LTE Band 41             | 0.527                        | 0.360                         | 0.311                         | 0.887               | 0.838        | 1.198           |
|               | NR Band n71             | 0.050                        | 0.360                         | 0.311                         | 0.410               | 0.361        | 0.721           |
|               | NR Band n5 (Cell)       | 0.550                        | 0.360                         | 0.311                         | 0.910               | 0.861        | 1.221           |
|               | NR Band n66 (AWS)       | 1.114                        | 0.360                         | 0.311                         | 1.474               | 1.425        | See Table Below |
|               | NR Band n25 (PCS)       | 0.951                        | 0.360                         | 0.311                         | 1.311               | 1.262        | See Table Below |
|               | NR Band n41             | 0.571                        | 0.360                         | 0.311                         | 0.931               | 0.882        | 1.242           |
| Simult Tx     | Configuration           | PCS CDMA 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           |
|               | Back                    | 0.716                        | 0.163                         | 0.245                         | 0.879               | 0.961        | 1.124           |
|               | Front                   | 0.636                        | 0.360*                        | 0.311*                        | 0.996               | 0.947        | <b>1.307</b>    |
|               | Top                     | -                            | 0.360*                        | 0.311                         | 0.360               | 0.311        | 0.671           |
|               | Bottom                  | 0.939                        | -                             | -                             | 0.939               | 0.939        | 0.939           |
| Hotspot SAR   | Right                   | -                            | -                             | -                             | -                   | -            | -               |
|               | Left                    | 0.160                        | 0.360                         | 0.311*                        | 0.520               | 0.471        | 0.831           |
| 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           |
|               | Back                    | 0.872                        | 0.163                         | 0.245                         | 1.035               | 1.117        | 1.280           |
|               | Front                   | 0.612                        | 0.360*                        | 0.311*                        | 0.972               | 0.923        | <b>1.283</b>    |
|               | Top                     | -                            | 0.360*                        | 0.311                         | 0.360               | 0.311        | 0.671           |
|               | Bottom                  | 0.987                        | -                             | -                             | 0.987               | 0.987        | 0.987           |
| Hotspot SAR   | Right                   | -                            | -                             | -                             | -                   | -            | -               |
|               | Left                    | 0.149                        | 0.360                         | 0.311*                        | 0.509               | 0.460        | 0.820           |
| 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           |
|               | Back                    | 0.406                        | 0.163                         | 0.245                         | 0.569               | 0.651        | 0.814           |
|               | Front                   | 0.297                        | 0.360*                        | 0.311*                        | 0.657               | 0.608        | 0.968           |
|               | Top                     | -                            | 0.360*                        | 0.311                         | 0.360               | 0.311        | 0.671           |
|               | Bottom                  | -                            | -                             | -                             | -                   | -            | -               |
| Hotspot SAR   | Right                   | 1.114                        | -                             | -                             | <b>1.114</b>        | <b>1.114</b> | <b>1.114</b>    |
|               | Left                    | -                            | 0.360                         | 0.311*                        | 0.360               | 0.311        | 0.671           |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1-ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 195 of 224                 |

| 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) | Σ SAR (W/kg) |       |              |
|-------------|---------------|------------------------------|-------------------------------|-------------------------------|--------------|-------|--------------|
|             |               | 1                            | 2                             | 3                             | 1+2          | 1+3   | 1+2+3        |
| Hotspot SAR | Back          | 0.620                        | 0.163                         | 0.245                         | 0.783        | 0.865 | 1.028        |
|             | Front         | 0.513                        | 0.360*                        | 0.311*                        | 0.873        | 0.824 | <b>1.184</b> |
|             | Top           | -                            | 0.360*                        | 0.311                         | 0.360        | 0.311 | 0.671        |
|             | Bottom        | -                            | -                             | -                             | -            | -     | -            |
|             | Right         | 0.951                        | -                             | -                             | 0.951        | 0.951 | 0.951        |
|             | Left          | -                            | 0.360                         | 0.311*                        | 0.360        | 0.311 | 0.671        |

**Table 12-14**  
**Simultaneous Transmission Scenario with 5 GHz WLAN (Hotspot at 1.0 cm)**

| Configuration | Mode                    | 2G/3G/4G /5G 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                           | 1+2          | 1+3   | 1+2+3           |
| Hotspot       | EVDO BC0 (\$22H)        | 0.566                   | 0.388                       | 0.261                       | 0.954        | 0.827 | 1.215           |
|               | PCS EVDO                | 0.939                   | 0.388                       | 0.261                       | 1.327        | 1.200 | <b>1.588</b>    |
|               | GPRS 850                | 0.570                   | 0.388                       | 0.261                       | 0.958        | 0.831 | 1.219           |
|               | GPRS 1900               | 0.899                   | 0.388                       | 0.261                       | 1.287        | 1.160 | 1.548           |
|               | UMTS 850                | 0.578                   | 0.388                       | 0.261                       | 0.966        | 0.839 | 1.227           |
|               | UMTS 1750               | 0.794                   | 0.388                       | 0.261                       | 1.182        | 1.055 | 1.443           |
|               | UMTS 1900               | 0.915                   | 0.388                       | 0.261                       | 1.303        | 1.176 | 1.564           |
|               | LTE Band 71             | 0.364                   | 0.388                       | 0.261                       | 0.752        | 0.625 | 1.013           |
|               | LTE Band 12             | 0.393                   | 0.388                       | 0.261                       | 0.781        | 0.654 | 1.042           |
|               | LTE Band 13             | 0.427                   | 0.388                       | 0.261                       | 0.815        | 0.688 | 1.076           |
|               | LTE Band 14             | 0.427                   | 0.388                       | 0.261                       | 0.815        | 0.688 | 1.076           |
|               | LTE Band 5 (Cell)       | 0.612                   | 0.388                       | 0.261                       | 1.000        | 0.873 | 1.261           |
|               | LTE Band 66 (AWS)       | 0.776                   | 0.388                       | 0.261                       | 1.164        | 1.037 | 1.425           |
|               | LTE Band 66 Ant 3 (AWS) | 0.129                   | 0.388                       | 0.261                       | 0.517        | 0.390 | 0.778           |
|               | LTE Band 2 Ant 3 (PCS)  | 0.281                   | 0.388                       | 0.261                       | 0.669        | 0.542 | 0.930           |
|               | LTE Band 25 (PCS)       | 0.987                   | 0.388                       | 0.261                       | 1.375        | 1.248 | See Table Below |
|               | LTE Band 30             | 0.929                   | 0.388                       | 0.261                       | 1.317        | 1.190 | 1.578           |
|               | LTE Band 7              | 0.814                   | 0.388                       | 0.261                       | 1.202        | 1.075 | 1.463           |
|               | LTE Band 41             | 0.527                   | 0.388                       | 0.261                       | 0.915        | 0.788 | 1.176           |
|               | NR Band n71             | 0.050                   | 0.388                       | 0.261                       | 0.438        | 0.311 | 0.699           |
|               | NR Band n5 (Cell)       | 0.550                   | 0.388                       | 0.261                       | 0.938        | 0.811 | 1.199           |
|               | NR Band n66 (AWS)       | 1.114                   | 0.388                       | 0.261                       | 1.502        | 1.375 | See Table Below |
|               | NR Band n25 (PCS)       | 0.951                   | 0.388                       | 0.261                       | 1.339        | 1.212 | See Table Below |
|               | NR Band n41             | 0.571                   | 0.388                       | 0.261                       | 0.959        | 0.832 | 1.220           |

| 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) |       |              | 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) |              |              |
|-------------|---------------|------------------------------|-----------------------------|-----------------------------|--------------|-------|--------------|-------------|---------------|------------------------------|-----------------------------|-----------------------------|--------------|--------------|--------------|
|             |               | 1                            | 2                           | 3                           | 1+2          | 1+3   | 1+2+3        |             |               | 1                            | 2                           | 3                           | 1+2          | 1+3          | 1+2+3        |
| Hotspot SAR | Back          | 0.872                        | 0.388                       | 0.261                       | 1.260        | 1.133 | <b>1.521</b> | Hotspot SAR | Back          | 0.406                        | 0.388                       | 0.261                       | 0.794        | 0.667        | 1.055        |
|             | Front         | 0.612                        | 0.118                       | 0.081                       | 0.730        | 0.693 | 0.811        |             | Front         | 0.297                        | 0.118                       | 0.081                       | 0.415        | 0.378        | 0.496        |
|             | Top           | -                            | 0.388*                      | 0.261*                      | 0.388        | 0.261 | 0.649        |             | Top           | -                            | 0.388*                      | 0.261*                      | 0.388        | 0.261        | 0.649        |
|             | Bottom        | 0.987                        | -                           | -                           | 0.987        | 0.987 | 0.987        |             | Bottom        | -                            | -                           | -                           | -            | -            | -            |
|             | Right         | -                            | -                           | -                           | -            | -     | -            |             | Right         | 1.114                        | -                           | -                           | <b>1.114</b> | <b>1.114</b> | <b>1.114</b> |
|             | Left          | 0.149                        | 0.388*                      | 0.261*                      | 0.537        | 0.410 | 0.798        |             | Left          | -                            | 0.388*                      | 0.261*                      | 0.388        | 0.261        | 0.649        |

| 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) |       |              |
|-------------|---------------|------------------------------|-----------------------------|-----------------------------|--------------|-------|--------------|
|             |               | 1                            | 2                           | 3                           | 1+2          | 1+3   | 1+2+3        |
| Hotspot SAR | Back          | 0.620                        | 0.388                       | 0.261                       | 1.008        | 0.881 | <b>1.269</b> |
|             | Front         | 0.513                        | 0.118                       | 0.081                       | 0.631        | 0.594 | 0.712        |
|             | Top           | -                            | 0.388*                      | 0.261*                      | 0.388        | 0.261 | 0.649        |
|             | Bottom        | -                            | -                           | -                           | -            | -     | -            |
|             | Right         | 0.951                        | -                           | -                           | 0.951        | 0.951 | 0.951        |
|             | Left          | -                            | 0.388*                      | 0.261*                      | 0.388        | 0.261 | 0.649        |

|                                                |                                                                                                                                                 |                                      |                                                                                       |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: ZNFG900UM                              |  <b>PCTEST</b><br><small>Proud to be part of element</small> | <b>SAR EVALUATION REPORT</b>         |  | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004150063-01-R1.ZNF | <b>Test Dates:</b><br>04/27/20 – 06/25/20                                                                                                       | <b>DUT Type:</b><br>Portable Handset | Page 196 of 224                                                                       |                                        |

**Table 12-15**  
**Simultaneous Transmission Scenario with 2.4 GHz WLAN Ant 1 and 5 GHz WLAN Ant 2 (Hotspot at 1.0 cm)**

| Configuration | Mode                    | 2G/3G/4G /5G SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg)    |
|---------------|-------------------------|-------------------------|-------------------------------|-----------------------------|-----------------|
|               |                         | 1                       | 2                             | 3                           | 1+2+3           |
| Hotspot       | EVDO BC0 (\$22H)        | 0.566                   | 0.360                         | 0.261                       | 1.187           |
|               | PCS EVDO                | 0.939                   | 0.360                         | 0.261                       | 1.560           |
|               | GPRS 850                | 0.570                   | 0.360                         | 0.261                       | 1.191           |
|               | GPRS 1900               | 0.899                   | 0.360                         | 0.261                       | 1.520           |
|               | UMTS 850                | 0.578                   | 0.360                         | 0.261                       | 1.199           |
|               | UMTS 1750               | 0.794                   | 0.360                         | 0.261                       | 1.415           |
|               | UMTS 1900               | 0.915                   | 0.360                         | 0.261                       | 1.536           |
|               | LTE Band 71             | 0.364                   | 0.360                         | 0.261                       | 0.985           |
|               | LTE Band 12             | 0.393                   | 0.360                         | 0.261                       | 1.014           |
|               | LTE Band 13             | 0.427                   | 0.360                         | 0.261                       | 1.048           |
|               | LTE Band 14             | 0.427                   | 0.360                         | 0.261                       | 1.048           |
|               | LTE Band 5 (Cell)       | 0.612                   | 0.360                         | 0.261                       | 1.233           |
|               | LTE Band 66 (AWS)       | 0.776                   | 0.360                         | 0.261                       | 1.397           |
|               | LTE Band 66 Ant 3 (AWS) | 0.129                   | 0.360                         | 0.261                       | 0.750           |
|               | LTE Band 2 Ant 3 (PCS)  | 0.281                   | 0.360                         | 0.261                       | 0.902           |
|               | LTE Band 25 (PCS)       | 0.987                   | 0.360                         | 0.261                       | See Table Below |
|               | LTE Band 30             | 0.929                   | 0.360                         | 0.261                       | 1.550           |
|               | LTE Band 7              | 0.814                   | 0.360                         | 0.261                       | 1.435           |
|               | LTE Band 41             | 0.527                   | 0.360                         | 0.261                       | 1.148           |
|               | NR Band n71             | 0.050                   | 0.360                         | 0.261                       | 0.671           |
|               | NR Band n5 (Cell)       | 0.550                   | 0.360                         | 0.261                       | 1.171           |
|               | NR Band n66 (AWS)       | 1.114                   | 0.360                         | 0.261                       | See Table Below |
|               | NR Band n25 (PCS)       | 0.951                   | 0.360                         | 0.261                       | <b>1.572</b>    |
|               | NR Band n41             | 0.571                   | 0.360                         | 0.261                       | 1.192           |

| Simult Tx   | Configuration | LTE Band 25 (PCS) SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) | Simult Tx   | Configuration | NR Band n66 (AWS) SAR (W/kg) | 2.4 GHz WLAN Ant 1 SAR (W/kg) | 5 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) |
|-------------|---------------|------------------------------|-------------------------------|-----------------------------|--------------|-------------|---------------|------------------------------|-------------------------------|-----------------------------|--------------|
|             |               | 1                            | 2                             | 3                           | 1+2+3        |             |               | 1                            | 2                             | 3                           | 1+2+3        |
| Hotspot SAR | Back          | 0.872                        | 0.163                         | 0.261                       | <b>1.296</b> | Hotspot SAR | Back          | 0.406                        | 0.163                         | 0.261                       | 0.830        |
|             | Front         | 0.612                        | 0.360*                        | 0.081                       | 1.053        |             | Front         | 0.297                        | 0.360*                        | 0.081                       | 0.738        |
|             | Top           | -                            | 0.360*                        | 0.261*                      | 0.621        |             | Top           | -                            | 0.360*                        | 0.261*                      | 0.621        |
|             | Bottom        | 0.987                        | -                             | -                           | 0.987        |             | Bottom        | -                            | -                             | -                           | -            |
|             | Right         | -                            | -                             | -                           | -            |             | Right         | 1.114                        | -                             | -                           | <b>1.114</b> |
|             | Left          | 0.149                        | 0.360                         | 0.261*                      | 0.770        |             | Left          | -                            | 0.360                         | 0.261*                      | 0.621        |

|                                         |                                                                                                                                                 |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset |                                                                                       | Page 197 of 224                 |

**Table 12-16**  
**Simultaneous Transmission Scenario with Bluetooth (Hotspot at 1.0 cm)**

| Configuration | Mode                    | 2G/3G/4G<br>/5G SAR<br>(W/kg) | Bluetooth<br>SAR (W/kg) | Σ SAR<br>(W/kg) |
|---------------|-------------------------|-------------------------------|-------------------------|-----------------|
|               |                         | 1                             | 2                       | 1+2             |
| Hotspot       | EVDO BC0 (\$22H)        | 0.566                         | 0.058                   | 0.624           |
|               | PCS EVDO                | 0.939                         | 0.058                   | 0.997           |
|               | GPRS 850                | 0.570                         | 0.058                   | 0.628           |
|               | GPRS 1900               | 0.899                         | 0.058                   | 0.957           |
|               | UMTS 850                | 0.578                         | 0.058                   | 0.636           |
|               | UMTS 1750               | 0.794                         | 0.058                   | 0.852           |
|               | UMTS 1900               | 0.915                         | 0.058                   | 0.973           |
|               | LTE Band 71             | 0.364                         | 0.058                   | 0.422           |
|               | LTE Band 12             | 0.393                         | 0.058                   | 0.451           |
|               | LTE Band 13             | 0.427                         | 0.058                   | 0.485           |
|               | LTE Band 14             | 0.427                         | 0.058                   | 0.485           |
|               | LTE Band 5 (Cell)       | 0.612                         | 0.058                   | 0.670           |
|               | LTE Band 66 (AWS)       | 0.776                         | 0.058                   | 0.834           |
|               | LTE Band 66 Ant 3 (AWS) | 0.129                         | 0.058                   | 0.187           |
|               | LTE Band 2 Ant 3 (PCS)  | 0.281                         | 0.058                   | 0.339           |
|               | LTE Band 25 (PCS)       | 0.987                         | 0.058                   | 1.045           |
|               | LTE Band 30             | 0.929                         | 0.058                   | 0.987           |
|               | LTE Band 7              | 0.814                         | 0.058                   | 0.872           |
|               | LTE Band 41             | 0.527                         | 0.058                   | 0.585           |
|               | NR Band n71             | 0.050                         | 0.058                   | 0.108           |
|               | NR Band n5 (Cell)       | 0.550                         | 0.058                   | 0.608           |
|               | NR Band n66 (AWS)       | 1.114                         | 0.058                   | <b>1.172</b>    |
|               | NR Band n25 (PCS)       | 0.951                         | 0.058                   | 1.009           |
|               | NR Band n41             | 0.571                         | 0.058                   | 0.629           |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 198 of 224                                                                       |                                 |

**Table 12-17**  
**Simultaneous Transmission Scenario with 2.4 GHz WLAN Antenna 2 and Bluetooth (Hotspot at 1.0 cm)**

| Configuration | Mode                    | 2G/3G/4G /5G SAR (W/kg) | Bluetooth SAR (W/kg) | 2.4 GHz WLAN Ant 2 SAR (W/kg) | Σ SAR (W/kg) |
|---------------|-------------------------|-------------------------|----------------------|-------------------------------|--------------|
|               |                         | 1                       | 2                    | 3                             | 1+2+3        |
| Hotspot       | EVDO BC0 (\$22H)        | 0.566                   | 0.058                | 0.311                         | 0.935        |
|               | PCS EVDO                | 0.939                   | 0.058                | 0.311                         | 1.308        |
|               | GPRS 850                | 0.570                   | 0.058                | 0.311                         | 0.939        |
|               | GPRS 1900               | 0.899                   | 0.058                | 0.311                         | 1.268        |
|               | UMTS 850                | 0.578                   | 0.058                | 0.311                         | 0.947        |
|               | UMTS 1750               | 0.794                   | 0.058                | 0.311                         | 1.163        |
|               | UMTS 1900               | 0.915                   | 0.058                | 0.311                         | 1.284        |
|               | LTE Band 71             | 0.364                   | 0.058                | 0.311                         | 0.733        |
|               | LTE Band 12             | 0.393                   | 0.058                | 0.311                         | 0.762        |
|               | LTE Band 13             | 0.427                   | 0.058                | 0.311                         | 0.796        |
|               | LTE Band 14             | 0.427                   | 0.058                | 0.311                         | 0.796        |
|               | LTE Band 5 (Cell)       | 0.612                   | 0.058                | 0.311                         | 0.981        |
|               | LTE Band 66 (AWS)       | 0.776                   | 0.058                | 0.311                         | 1.145        |
|               | LTE Band 66 Ant 3 (AWS) | 0.129                   | 0.058                | 0.311                         | 0.498        |
|               | LTE Band 2 Ant 3 (PCS)  | 0.281                   | 0.058                | 0.311                         | 0.650        |
|               | LTE Band 25 (PCS)       | 0.987                   | 0.058                | 0.311                         | 1.356        |
|               | LTE Band 30             | 0.929                   | 0.058                | 0.311                         | 1.298        |
|               | LTE Band 7              | 0.814                   | 0.058                | 0.311                         | 1.183        |
|               | LTE Band 41             | 0.527                   | 0.058                | 0.311                         | 0.896        |
|               | NR Band n71             | 0.050                   | 0.058                | 0.311                         | 0.419        |
|               | NR Band n5 (Cell)       | 0.550                   | 0.058                | 0.311                         | 0.919        |
|               | NR Band n66 (AWS)       | 1.114                   | 0.058                | 0.311                         | <b>1.483</b> |
|               | NR Band n25 (PCS)       | 0.951                   | 0.058                | 0.311                         | 1.320        |
|               | NR Band n41             | 0.571                   | 0.058                | 0.311                         | 0.940        |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 199 of 224                                                                       |                                 |

**Table 12-18**  
**Simultaneous Transmission Scenario with 5 GHz WLAN and Bluetooth (Hotspot at 1.0 cm)**

| Configuration | 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         |
| Hotspot       | EVDO BC0 (\$22H)        | 0.566                   | 0.058                | 0.388                       | 0.261                       | 1.012               | 0.885 | 1.273           |
|               | PCS EVDO                | 0.939                   | 0.058                | 0.388                       | 0.261                       | 1.385               | 1.258 | See Table Below |
|               | GPRS 850                | 0.570                   | 0.058                | 0.388                       | 0.261                       | 1.016               | 0.889 | 1.277           |
|               | GPRS 1900               | 0.899                   | 0.058                | 0.388                       | 0.261                       | 1.345               | 1.218 | See Table Below |
|               | UMTS 850                | 0.578                   | 0.058                | 0.388                       | 0.261                       | 1.024               | 0.897 | 1.285           |
|               | UMTS 1750               | 0.794                   | 0.058                | 0.388                       | 0.261                       | 1.240               | 1.113 | 1.501           |
|               | UMTS 1900               | 0.915                   | 0.058                | 0.388                       | 0.261                       | 1.361               | 1.234 | See Table Below |
|               | LTE Band 71             | 0.364                   | 0.058                | 0.388                       | 0.261                       | 0.810               | 0.683 | 1.071           |
|               | LTE Band 12             | 0.393                   | 0.058                | 0.388                       | 0.261                       | 0.839               | 0.712 | 1.100           |
|               | LTE Band 13             | 0.427                   | 0.058                | 0.388                       | 0.261                       | 0.873               | 0.746 | 1.134           |
|               | LTE Band 14             | 0.427                   | 0.058                | 0.388                       | 0.261                       | 0.873               | 0.746 | 1.134           |
|               | LTE Band 5 (Cell)       | 0.612                   | 0.058                | 0.388                       | 0.261                       | 1.058               | 0.931 | 1.319           |
|               | LTE Band 66 (AWS)       | 0.776                   | 0.058                | 0.388                       | 0.261                       | 1.222               | 1.095 | 1.483           |
|               | LTE Band 66 Ant 3 (AWS) | 0.129                   | 0.058                | 0.388                       | 0.261                       | 0.575               | 0.448 | 0.836           |
|               | LTE Band 2 Ant 3 (PCS)  | 0.281                   | 0.058                | 0.388                       | 0.261                       | 0.727               | 0.600 | 0.988           |
|               | LTE Band 25 (PCS)       | 0.987                   | 0.058                | 0.388                       | 0.261                       | 1.433               | 1.306 | See Table Below |
|               | LTE Band 30             | 0.929                   | 0.058                | 0.388                       | 0.261                       | 1.375               | 1.248 | See Table Below |
|               | LTE Band 7              | 0.814                   | 0.058                | 0.388                       | 0.261                       | 1.260               | 1.133 | 1.521           |
|               | LTE Band 41             | 0.527                   | 0.058                | 0.388                       | 0.261                       | 0.973               | 0.846 | 1.234           |
|               | NR Band n71             | 0.050                   | 0.058                | 0.388                       | 0.261                       | 0.496               | 0.369 | 0.757           |
|               | NR Band n5 (Cell)       | 0.550                   | 0.058                | 0.388                       | 0.261                       | 0.996               | 0.869 | 1.257           |
|               | NR Band n66 (AWS)       | 1.114                   | 0.058                | 0.388                       | 0.261                       | <b>1.560</b>        | 1.433 | See Table Below |
|               | NR Band n25 (PCS)       | 0.951                   | 0.058                | 0.388                       | 0.261                       | 1.397               | 1.270 | See Table Below |
|               | NR Band n41             | 0.571                   | 0.058                | 0.388                       | 0.261                       | 1.017               | 0.890 | 1.278           |

| Simult Tx   | Configuration | PCS EVDO 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) | Simult Tx   | Configuration | GPRS 1900 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+4             |             |               | 1                            | 2                    | 3                           | 4                           | 1+2+3+4             |
| Hotspot SAR | Back          | 0.716                | 0.023                | 0.388                       | 0.261                       | <b>1.388</b>        | Hotspot SAR | Back          | 0.412                        | 0.023                | 0.388                       | 0.261                       | <b>1.084</b>        |
|             | Front         | 0.636                | 0.016                | 0.118                       | 0.081                       | 0.851               |             | Front         | 0.327                        | 0.016                | 0.118                       | 0.081                       | 0.542               |
|             | Top           | -                    | 0.019                | 0.388*                      | 0.261*                      | 0.668               |             | Top           | -                            | 0.019                | 0.388*                      | 0.261*                      | 0.668               |
|             | Bottom        | 0.939                | -                    | -                           | -                           | 0.939               |             | Bottom        | 0.899                        | -                    | -                           | -                           | 0.899               |
|             | Right         | -                    | -                    | -                           | -                           | -                   |             | Right         | -                            | -                    | -                           | -                           | -                   |
|             | Left          | 0.160                | 0.058                | 0.388*                      | 0.261*                      | 0.867               |             | Left          | 0.154                        | 0.058                | 0.388*                      | 0.261*                      | 0.861               |
| Simult Tx   | Configuration | UMTS 1900 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) | Simult Tx   | Configuration | LTE Band 25 (PCS) 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+4             |             |               | 1                            | 2                    | 3                           | 4                           | 1+2+3+4             |
| Hotspot SAR | Back          | 0.853                | 0.023                | 0.388                       | 0.261                       | <b>1.525</b>        | Hotspot SAR | Back          | 0.872                        | 0.023                | 0.388                       | 0.261                       | <b>1.544</b>        |
|             | Front         | 0.915                | 0.016                | 0.118                       | 0.081                       | 1.130               |             | Front         | 0.612                        | 0.016                | 0.118                       | 0.081                       | 0.827               |
|             | Top           | -                    | 0.019                | 0.388*                      | 0.261*                      | 0.668               |             | Top           | -                            | 0.019                | 0.388*                      | 0.261*                      | 0.668               |
|             | Bottom        | 0.890                | -                    | -                           | -                           | 0.890               |             | Bottom        | 0.987                        | -                    | -                           | -                           | 0.987               |
|             | Right         | -                    | -                    | -                           | -                           | -                   |             | Right         | -                            | -                    | -                           | -                           | -                   |
|             | Left          | 0.122                | 0.058                | 0.388*                      | 0.261*                      | 0.829               |             | Left          | 0.149                        | 0.058                | 0.388*                      | 0.261*                      | 0.856               |

|                                         |                                                                                                                                                 |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset |                                                                                       | Page 200 of 224                 |

| Simult Tx   | Configuration | LTE Band 30 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) | Simult Tx   | Configuration | NR Band n66 (AWS) 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+4      |             |               | 1                            | 2                    | 3                           | 4                           | 1+2+3+4      |
| Hotspot SAR | Back          | 0.609                  | 0.023                | 0.388                       | 0.261                       | 1.281        | Hotspot SAR | Back          | 0.406                        | 0.023                | 0.388                       | 0.261                       | 1.078        |
|             | Front         | 0.467                  | 0.016                | 0.118                       | 0.081                       | 0.682        |             | Front         | 0.297                        | 0.016                | 0.118                       | 0.081                       | 0.512        |
|             | Top           | -                      | 0.019                | 0.388*                      | 0.261*                      | 0.668        |             | Top           | -                            | 0.019                | 0.388*                      | 0.261*                      | 0.668        |
|             | Bottom        | 0.929                  | -                    | -                           | -                           | 0.929        |             | Bottom        | -                            | -                    | -                           | -                           | -            |
|             | Right         | -                      | -                    | -                           | -                           | -            |             | Right         | 1.114                        | -                    | -                           | -                           | 1.114        |
|             | Left          | 0.128                  | 0.058                | 0.388*                      | 0.261*                      | 0.835        |             | Left          | -                            | 0.058                | 0.388*                      | 0.261*                      | 0.707        |

| Simult Tx   | Configuration | NR Band n25 (PCS) 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+4      |
| Hotspot SAR | Back          | 0.620                        | 0.023                | 0.388                       | 0.261                       | 1.292        |
|             | Front         | 0.513                        | 0.016                | 0.118                       | 0.081                       | 0.728        |
|             | Top           | -                            | 0.019                | 0.388*                      | 0.261*                      | 0.668        |
|             | Bottom        | -                            | -                    | -                           | -                           | -            |
|             | Right         | 0.951                        | -                    | -                           | -                           | 0.951        |
|             | Left          | -                            | 0.058                | 0.388*                      | 0.261*                      | 0.707        |

## 12.6 Phablet Simultaneous Transmission Analysis

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.

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.

**Table 12-19**  
**Simultaneous Transmission Scenario with 5 GHz WLAN (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 | 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) |       |
|-------------|--------------------------|----------------------|-----------------------------|-----------------------------|--------------|-------|-------|-------------|---------------|----------------------|-----------------------------|-----------------------------|--------------|-------|
|             |                          | 1                    | 2                           | 3                           | 1+2          | 1+3   | 1+2   |             |               | 1                    | 2                           | 3                           | 1+2          | 1+3   |
| Phablet SAR | Back (without Accessory) | 2.712                | 1.561                       | 0.739                       | See Note 1   | 3.451 | 0.06  | Phablet SAR | Front         | 2.675                | 0.310                       | 0.739*                      | 2.985        | 3.414 |
|             | Back (Position #1)       | 2.435                | 1.142                       | 0.478                       | 3.577        | 2.913 | N/A   |             | Top           | -                    | 1.561*                      | 0.739*                      | 1.561        | 0.739 |
|             |                          |                      |                             |                             |              |       |       |             | Bottom        | 2.657                | -                           | -                           | 2.657        | 2.657 |
|             |                          |                      |                             |                             |              |       |       |             | Right         | -                    | -                           | -                           | -            | -     |
|             |                          |                      |                             |                             |              |       |       |             | Left          | 0.707                | 0.441                       | 0.739*                      | 1.148        | 1.446 |
| 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 1750 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                           | 1+2          | 1+3   | 1+2   |             |               | 1                    | 2                           | 3                           | 1+2          | 1+3   |
| Phablet SAR | Back (without Accessory) | 1.615                | 1.561                       | 0.739                       | 3.176        | 2.354 | N/A   | Phablet SAR | Front         | 2.625                | 0.310                       | 0.739*                      | 2.935        | 3.364 |
|             | Back (Position #1)       | 2.886                | 1.142                       | 0.478                       | See Note 1   | 3.364 | 0.06  |             | Top           | -                    | 1.561*                      | 0.739*                      | 1.561        | 0.739 |
|             |                          |                      |                             |                             |              |       |       |             | Bottom        | 2.106                | -                           | -                           | 2.106        | 2.106 |
|             |                          |                      |                             |                             |              |       |       |             | Right         | -                    | -                           | -                           | -            | -     |
|             |                          |                      |                             |                             |              |       |       |             | Left          | 0.475                | 0.441                       | 0.739*                      | 0.916        | 1.214 |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 201 of 224                 |

| 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) |       |
|-------------|--------------------------|------------------------|-----------------------------|-----------------------------|--------------|-------|
|             |                          | 1                      | 2                           | 3                           | 1+2          | 1+3   |
| Phablet SAR | Back (without Accessory) | 2.110                  | 1.561                       | 0.739                       | <b>3.671</b> | 2.849 |
|             |                          |                        |                             |                             |              |       |
|             | Back (Position #1)       | 2.384                  | 1.142                       | 0.478                       | 3.526        | 2.862 |
|             |                          |                        |                             |                             |              |       |
| Simult Tx   | Configuration            | LTE Band 66 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                           | 1+2          | 1+3   |
| Phablet SAR | Back (without Accessory) | 1.957                  | 1.561                       | 0.739                       | 3.518        | 2.696 |
|             |                          |                        |                             |                             |              |       |
|             | Back (Position #1)       | 2.644                  | 1.142                       | 0.478                       | <b>3.786</b> | 3.122 |
|             |                          |                        |                             |                             |              |       |
| Simult Tx   | Configuration            | LTE Band 25 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                           | 1+2          | 1+3   |
| Phablet SAR | Back (without Accessory) | 2.328                  | 1.561                       | 0.739                       | <b>3.889</b> | 3.067 |
|             |                          |                        |                             |                             |              |       |
|             | Back (Position #1)       | 2.555                  | 1.142                       | 0.478                       | 3.697        | 3.033 |
|             |                          |                        |                             |                             |              |       |

| 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   |
| Phablet SAR | Back (without Accessory) | 3.009                 | 1.561                       | 0.739                       | See Note 1   | <b>3.748</b> | 0.07  |
|             |                          |                       |                             |                             |              |              |       |
|             | Back (Position #1)       | 1.875                 | 1.142                       | 0.478                       | 3.017        | 2.353        | N/A   |
|             |                          |                       |                             |                             |              |              |       |

| 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) |       |
|-------------|--------------------------|------------------------|-----------------------------|-----------------------------|--------------|-------|
|             |                          | 1                      | 2                           | 3                           | 1+2          | 1+3   |
| Phablet SAR | Back (without Accessory) | 2.073                  | 1.561                       | 0.739                       | <b>3.634</b> | 2.812 |
|             |                          |                        |                             |                             |              |       |
|             | Back (Position #1)       | 1.049                  | 1.142                       | 0.478                       | 2.191        | 1.527 |
|             |                          |                        |                             |                             |              |       |

| 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) |              |
|-------------|---------------|------------------------------|-----------------------------|-----------------------------|--------------|--------------|
|             |               | 1                            | 2                           | 3                           | 1+2          | 1+3          |
| Phablet SAR | Back          | -                            | 1.561                       | 0.739                       | 1.561        | 0.739        |
|             | Front         | -                            | 0.310                       | 0.739*                      | 0.310        | 0.739        |
|             | Top           | -                            | 1.561*                      | 0.739*                      | 1.561        | 0.739        |
|             | Bottom        | -                            | -                           | -                           | -            | -            |
|             | Right         | 3.168                        | -                           | -                           | <b>3.168</b> | <b>3.168</b> |
|             | Left          | -                            | 0.441                       | 0.739*                      | 0.441        | 0.739        |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 202 of 224                 |

**Table 12-20**  
**Simultaneous Transmission Scenario with 5 GHz WLAN MIMO (Phablet)**

| Simult Tx   | Configuration            | PCS EVDO SAR (W/kg)    | 5 GHz WLAN MIMO SAR (W/kg) | $\Sigma$ SAR (W/kg) | SPLSR | Simult Tx   | Configuration | PCS EVDO SAR (W/kg)          | 5 GHz WLAN MIMO SAR (W/kg) | $\Sigma$ SAR (W/kg) |
|-------------|--------------------------|------------------------|----------------------------|---------------------|-------|-------------|---------------|------------------------------|----------------------------|---------------------|
|             |                          | 1                      | 2                          | 1+2                 | 1+2   |             |               | 1                            | 2                          | 1+2                 |
| Phablet SAR | Back (without Accessory) | 2.712                  | 2.372                      | See Note 1          | 0.08  | Phablet SAR | Front         | 2.675                        | 0.635                      | <b>3.310</b>        |
|             | Back (Position #1)       | 2.435                  | 1.403                      | <b>3.838</b>        | N/A   |             | Top           | -                            | 2.372*                     | 2.372               |
|             |                          |                        |                            |                     |       |             | Bottom        | 2.657                        | -                          | 2.657               |
|             |                          |                        |                            |                     |       |             | Right         | -                            | -                          | -                   |
|             |                          |                        |                            |                     |       |             | Left          | 0.707                        | 0.679                      | 1.386               |
| Simult Tx   | Configuration            | UMTS 1750 SAR (W/kg)   | 5 GHz WLAN MIMO SAR (W/kg) | $\Sigma$ SAR (W/kg) | SPLSR | Simult Tx   | Configuration | UMTS 1750 SAR (W/kg)         | 5 GHz WLAN MIMO SAR (W/kg) | $\Sigma$ SAR (W/kg) |
|             |                          | 1                      | 2                          | 1+2                 | 1+2   |             |               | 1                            | 2                          | 1+2                 |
| Phablet SAR | Back (without Accessory) | 1.615                  | 2.372                      | <b>3.987</b>        | N/A   | Phablet SAR | Front         | 2.625                        | 0.635                      | <b>3.260</b>        |
|             | Back (Position #1)       | 2.886                  | 1.403                      | See Note 1          | 0.06  |             | Top           | -                            | 2.372*                     | 2.372               |
|             |                          |                        |                            |                     |       |             | Bottom        | 2.106                        | -                          | 2.106               |
|             |                          |                        |                            |                     |       |             | Right         | -                            | -                          | -                   |
|             |                          |                        |                            |                     |       |             | Left          | 0.475                        | 0.679                      | 1.154               |
| Simult Tx   | Configuration            | UMTS 1900 SAR (W/kg)   | 5 GHz WLAN MIMO SAR (W/kg) | $\Sigma$ SAR (W/kg) | SPLSR | Simult Tx   | Configuration | UMTS 1900 SAR (W/kg)         | 5 GHz WLAN MIMO SAR (W/kg) | $\Sigma$ SAR (W/kg) |
|             |                          | 1                      | 2                          | 1+2                 | 1+2   |             |               | 1                            | 2                          | 1+2                 |
| Phablet SAR | Back (without Accessory) | 2.110                  | 2.372                      | See Note 1          | 0.06  | Phablet SAR | Front         | 2.395                        | 0.635                      | <b>3.030</b>        |
|             | Back (Position #1)       | 2.384                  | 1.403                      | <b>3.787</b>        | N/A   |             | Top           | -                            | 2.372*                     | 2.372               |
|             |                          |                        |                            |                     |       |             | Bottom        | 2.340                        | -                          | 2.340               |
|             |                          |                        |                            |                     |       |             | Right         | -                            | -                          | -                   |
|             |                          |                        |                            |                     |       |             | Left          | 0.580                        | 0.679                      | 1.259               |
| Simult Tx   | Configuration            | LTE Band 66 SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | $\Sigma$ SAR (W/kg) | SPLSR | Simult Tx   | Configuration | LTE Band 66 (AWS) SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | $\Sigma$ SAR (W/kg) |
|             |                          | 1                      | 2                          | 1+2                 | 1+2   |             |               | 1                            | 2                          | 1+2                 |
| Phablet SAR | Back (without Accessory) | 1.957                  | 2.372                      | See Note 1          | 0.06  | Phablet SAR | Front         | 2.441                        | 0.635                      | <b>3.076</b>        |
|             | Back (Position #1)       | 2.644                  | 1.403                      | See Note 1          | 0.06  |             | Top           | -                            | 2.372*                     | 2.372               |
|             |                          |                        |                            |                     |       |             | Bottom        | 2.052                        | -                          | 2.052               |
|             |                          |                        |                            |                     |       |             | Right         | -                            | -                          | -                   |
|             |                          |                        |                            |                     |       |             | Left          | 0.578                        | 0.679                      | 1.257               |
| Simult Tx   | Configuration            | LTE Band 25 SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | $\Sigma$ SAR (W/kg) | SPLSR | Simult Tx   | Configuration | LTE Band 25 (PCS) SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | $\Sigma$ SAR (W/kg) |
|             |                          | 1                      | 2                          | 1+2                 | 1+2   |             |               | 1                            | 2                          | 1+2                 |
| Phablet SAR | Back (without Accessory) | 2.328                  | 2.372                      | See Note 1          | 0.07  | Phablet SAR | Front         | 2.495                        | 0.635                      | <b>3.130</b>        |
|             | Back (Position #1)       | 2.555                  | 1.403                      | <b>3.958</b>        | N/A   |             | Top           | -                            | 2.372*                     | 2.372               |
|             |                          |                        |                            |                     |       |             | Bottom        | 2.824                        | -                          | 2.824               |
|             |                          |                        |                            |                     |       |             | Right         | -                            | -                          | -                   |
|             |                          |                        |                            |                     |       |             | Left          | 0.704                        | 0.679                      | 1.383               |

|                                                |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: ZNFG900UM                              |  <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>1M2004150063-01-R1.ZNF | <b>Test Dates:</b><br>04/27/20 – 06/25/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset | Page 203 of 224<br>REV 21.4 M<br>09/11/2019                                           |                                        |

| Simult Tx   | Configuration            | LTE Band 7 SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR | 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                          | 1+2          |
| Phablet SAR | Back (without Accessory) | 3.009                 | 2.372                      | See Note 1   | 0.09  | Phablet SAR | Front         | 2.340                 | 0.635                      | 2.975        |
|             | Back (Position #1)       | 1.875                 | 1.403                      | 3.278        | N/A   |             | Top           | -                     | 2.372*                     | 2.372        |
|             |                          |                       |                            |              |       |             | Bottom        | 3.048                 | -                          | 3.048        |
|             |                          |                       |                            |              |       |             | Right         | -                     | -                          | -            |
|             |                          |                       |                            |              |       |             | Left          | 0.686                 | 0.679                      | 1.365        |

| Simult Tx   | Configuration            | LTE Band 41 SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) | SPLSR | 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                          | 1+2          |
| Phablet SAR | Back (without Accessory) | 2.073                  | 2.372                      | See Note 1   | 0.07  | Phablet SAR | Front         | 1.497                  | 0.635                      | 2.132        |
|             | Back (Position #1)       | 1.049                  | 1.403                      | 2.452        | N/A   |             | Top           | -                      | 2.372*                     | 2.372        |
|             |                          |                        |                            |              |       |             | Bottom        | 2.372                  | -                          | 2.372        |
|             |                          |                        |                            |              |       |             | Right         | -                      | -                          | -            |
|             |                          |                        |                            |              |       |             | Left          | 0.304                  | 0.679                      | 0.983        |

| Simult Tx   | Configuration | NR Band n66 (AWS) SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ SAR (W/kg) |
|-------------|---------------|------------------------------|----------------------------|--------------|
|             |               | 1                            | 2                          | 1+2          |
| Phablet SAR | Back          | -                            | 2.372                      | 2.372        |
|             | Front         | -                            | 0.635                      | 0.635        |
|             | Top           | -                            | 2.372*                     | 2.372        |
|             | Bottom        | -                            | -                          | -            |
|             | Right         | 3.168                        | -                          | 3.168        |
|             | Left          | -                            | 0.679                      | 0.679        |

Notes:

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: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset |                                                                                       | Page 204 of 224                 |

## 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 SAR 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.

$$\text{Distance}_{\text{Tx1} - \text{Tx2}} = R_i = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2} \text{ (Body-worn, Phablet)}$$

$$\text{SPLS Ratio} = \frac{(SAR_1 + SAR_2)^{1.5}}{R_i}$$

### 12.7.1 Body worn Back Side SPLSR Evaluation and Analysis

**Table 12-21**  
**Peak SAR Locations for Body worn Back Side**

| Mode/Band         | x (mm) | y (mm) |
|-------------------|--------|--------|
| Bluetooth         | 7.80   | 56.40  |
| 5 GHz WLAN Ant 1  | -3.00  | 75.00  |
| 5 GHz WLAN Ant 2  | -22.00 | 62.00  |
| PCS CDMA          | -0.50  | -84.00 |
| UMTS 1750         | -10.00 | -87.00 |
| UMTS 1900         | -11.50 | -85.50 |
| LTE Band 66 (AWS) | -8.50  | -85.50 |
| LTE Band 25 (PCS) | -13.00 | -84.00 |
| LTE Band 7        | -13.00 | -82.20 |

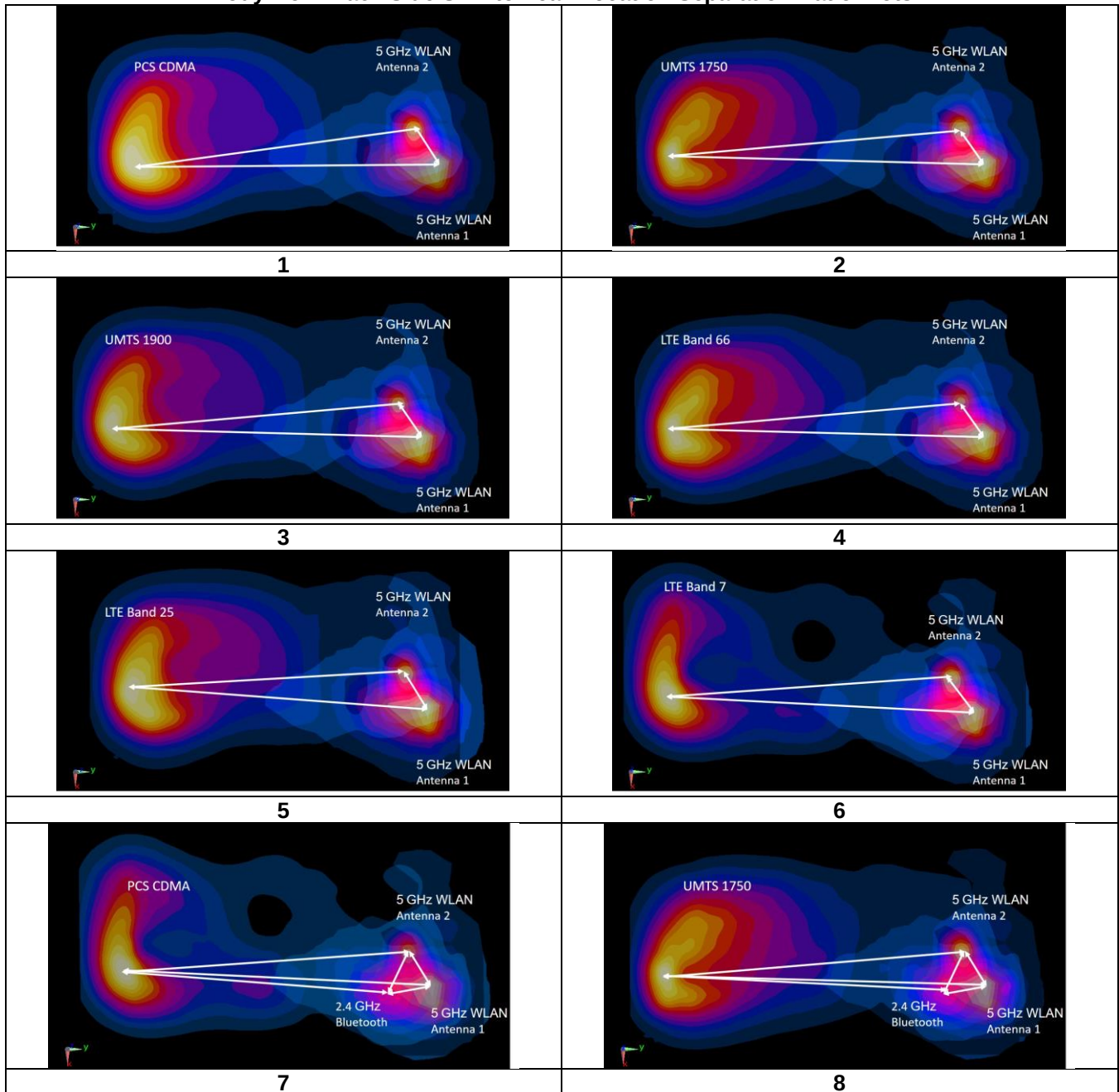
|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 205 of 224                 |

**Table 12-22**  
**Body worn Back Side SAR to Peak Location Separation Ratio Calculations**

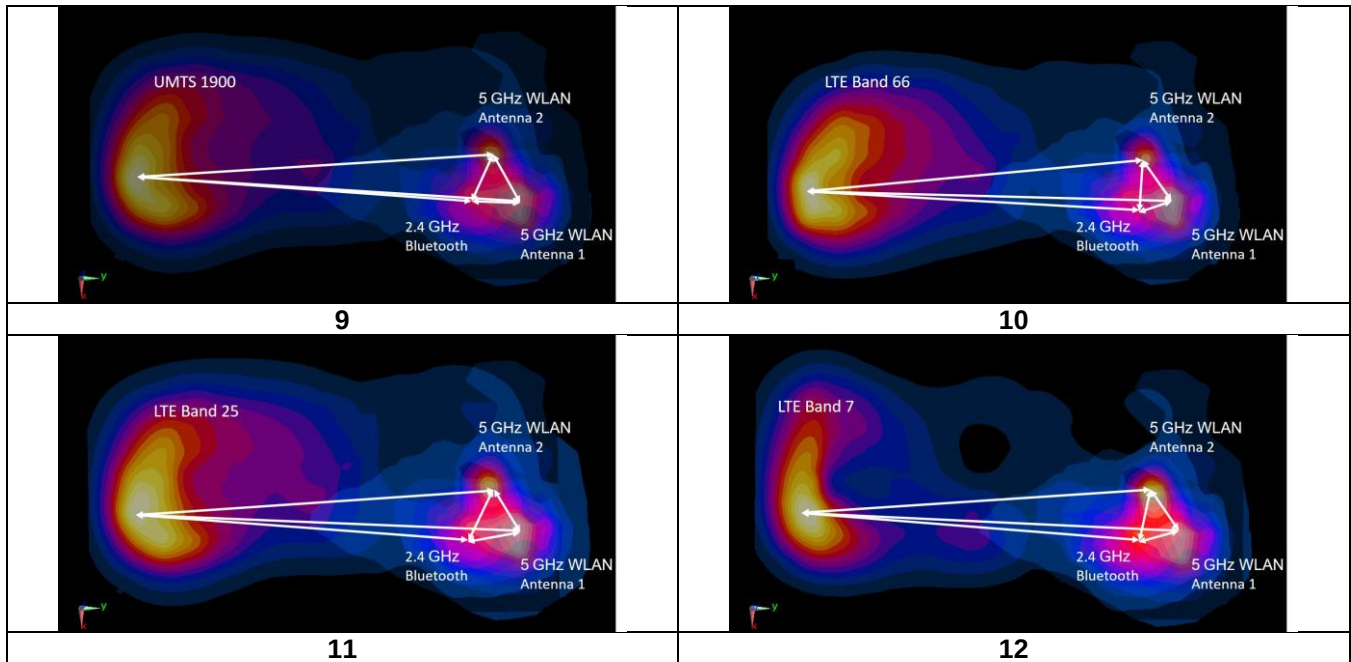
| Antenna Pair      |                  | Standalone SAR<br>(W/kg) |       | Standalone<br>SAR Sum<br>(W/kg) | Peak SAR<br>Separation<br>Distance (mm) | SPLS Ratio                             | Plot<br>Number |
|-------------------|------------------|--------------------------|-------|---------------------------------|-----------------------------------------|----------------------------------------|----------------|
| Ant "a"           | Ant "b"          | a                        | b     | a+b                             | D <sub>a-b</sub>                        | (a+b) <sup>1.5</sup> /D <sub>a-b</sub> |                |
| PCS CDMA          | 5 GHz WLAN Ant 1 | 0.848                    | 0.495 | 1.343                           | 159.02                                  | 0.01                                   | 1              |
| PCS CDMA          | 5 GHz WLAN Ant 2 | 0.848                    | 0.417 | 1.265                           | 147.57                                  | 0.01                                   |                |
| 5 GHz WLAN Ant 1  | 5 GHz WLAN Ant 2 | 0.495                    | 0.417 | 0.912                           | 23.02                                   | 0.04                                   |                |
| UMTS 1750         | 5 GHz WLAN Ant 1 | 0.773                    | 0.495 | 1.268                           | 162.15                                  | 0.01                                   | 2              |
| UMTS 1750         | 5 GHz WLAN Ant 2 | 0.773                    | 0.417 | 1.19                            | 149.48                                  | 0.01                                   |                |
| 5 GHz WLAN Ant 1  | 5 GHz WLAN Ant 2 | 0.495                    | 0.417 | 0.912                           | 23.02                                   | 0.04                                   |                |
| UMTS 1900         | 5 GHz WLAN Ant 1 | 0.853                    | 0.495 | 1.348                           | 160.72                                  | 0.01                                   | 3              |
| UMTS 1900         | 5 GHz WLAN Ant 2 | 0.853                    | 0.417 | 1.27                            | 147.87                                  | 0.01                                   |                |
| 5 GHz WLAN Ant 1  | 5 GHz WLAN Ant 2 | 0.495                    | 0.417 | 0.912                           | 23.02                                   | 0.04                                   |                |
| LTE Band 66 (AWS) | 5 GHz WLAN Ant 1 | 0.820                    | 0.495 | 1.315                           | 160.59                                  | 0.01                                   | 4              |
| LTE Band 66 (AWS) | 5 GHz WLAN Ant 2 | 0.820                    | 0.417 | 1.237                           | 148.12                                  | 0.01                                   |                |
| 5 GHz WLAN Ant 1  | 5 GHz WLAN Ant 2 | 0.495                    | 0.417 | 0.912                           | 23.02                                   | 0.04                                   |                |
| LTE Band 25 (PCS) | 5 GHz WLAN Ant 1 | 0.920                    | 0.495 | 1.415                           | 159.31                                  | 0.01                                   | 5              |
| LTE Band 25 (PCS) | 5 GHz WLAN Ant 2 | 0.920                    | 0.417 | 1.337                           | 146.28                                  | 0.01                                   |                |
| 5 GHz WLAN Ant 1  | 5 GHz WLAN Ant 2 | 0.495                    | 0.417 | 0.912                           | 23.02                                   | 0.04                                   |                |
| LTE Band 7        | 5 GHz WLAN Ant 1 | 0.771                    | 0.495 | 1.266                           | 157.52                                  | 0.01                                   | 6              |
| LTE Band 7        | 5 GHz WLAN Ant 2 | 0.771                    | 0.417 | 1.188                           | 144.48                                  | 0.01                                   |                |
| 5 GHz WLAN Ant 1  | 5 GHz WLAN Ant 2 | 0.495                    | 0.417 | 0.912                           | 23.02                                   | 0.04                                   |                |
| PCS CDMA          | Bluetooth        | 0.848                    | 0.023 | 0.871                           | 140.65                                  | 0.01                                   | 7              |
| PCS CDMA          | 5 GHz WLAN Ant 1 | 0.848                    | 0.495 | 1.343                           | 159.02                                  | 0.01                                   |                |
| PCS CDMA          | 5 GHz WLAN Ant 2 | 0.848                    | 0.417 | 1.265                           | 147.57                                  | 0.01                                   |                |
| Bluetooth         | 5 GHz WLAN Ant 1 | 0.023                    | 0.495 | 0.518                           | 21.51                                   | 0.02                                   |                |
| Bluetooth         | 5 GHz WLAN Ant 2 | 0.023                    | 0.417 | 0.44                            | 30.32                                   | 0.01                                   |                |
| 5 GHz WLAN Ant 1  | 5 GHz WLAN Ant 2 | 0.495                    | 0.417 | 0.912                           | 23.02                                   | 0.04                                   | 8              |
| UMTS 1750         | Bluetooth        | 0.773                    | 0.023 | 0.796                           | 144.50                                  | 0.00                                   |                |
| UMTS 1750         | 5 GHz WLAN Ant 1 | 0.773                    | 0.495 | 1.268                           | 162.15                                  | 0.01                                   |                |
| UMTS 1750         | 5 GHz WLAN Ant 2 | 0.773                    | 0.417 | 1.19                            | 149.48                                  | 0.01                                   |                |
| Bluetooth         | 5 GHz WLAN Ant 1 | 0.023                    | 0.495 | 0.518                           | 21.51                                   | 0.02                                   |                |
| Bluetooth         | 5 GHz WLAN Ant 2 | 0.023                    | 0.417 | 0.44                            | 30.32                                   | 0.01                                   | 9              |
| 5 GHz WLAN Ant 1  | 5 GHz WLAN Ant 2 | 0.495                    | 0.417 | 0.912                           | 23.02                                   | 0.04                                   |                |
| UMTS 1900         | Bluetooth        | 0.853                    | 0.023 | 0.876                           | 143.21                                  | 0.01                                   |                |
| UMTS 1900         | 5 GHz WLAN Ant 1 | 0.853                    | 0.495 | 1.348                           | 160.72                                  | 0.01                                   |                |
| UMTS 1900         | 5 GHz WLAN Ant 2 | 0.853                    | 0.417 | 1.27                            | 147.87                                  | 0.01                                   |                |
| Bluetooth         | 5 GHz WLAN Ant 1 | 0.023                    | 0.495 | 0.518                           | 21.51                                   | 0.02                                   | 10             |
| Bluetooth         | 5 GHz WLAN Ant 2 | 0.023                    | 0.417 | 0.44                            | 30.32                                   | 0.01                                   |                |
| 5 GHz WLAN Ant 1  | 5 GHz WLAN Ant 2 | 0.495                    | 0.417 | 0.912                           | 23.02                                   | 0.04                                   |                |
| LTE Band 66 (AWS) | Bluetooth        | 0.820                    | 0.023 | 0.843                           | 142.83                                  | 0.01                                   |                |
| LTE Band 66 (AWS) | 5 GHz WLAN Ant 1 | 0.820                    | 0.495 | 1.315                           | 160.59                                  | 0.01                                   |                |
| LTE Band 66 (AWS) | 5 GHz WLAN Ant 2 | 0.820                    | 0.417 | 1.237                           | 148.12                                  | 0.01                                   | 11             |
| Bluetooth         | 5 GHz WLAN Ant 1 | 0.023                    | 0.495 | 0.518                           | 21.51                                   | 0.02                                   |                |
| Bluetooth         | 5 GHz WLAN Ant 2 | 0.023                    | 0.417 | 0.44                            | 30.32                                   | 0.01                                   |                |
| 5 GHz WLAN Ant 1  | 5 GHz WLAN Ant 2 | 0.495                    | 0.417 | 0.912                           | 23.02                                   | 0.04                                   |                |
| LTE Band 25 (PCS) | Bluetooth        | 0.920                    | 0.023 | 0.943                           | 141.93                                  | 0.01                                   |                |
| LTE Band 25 (PCS) | 5 GHz WLAN Ant 1 | 0.920                    | 0.495 | 1.415                           | 159.31                                  | 0.01                                   | 12             |
| LTE Band 25 (PCS) | 5 GHz WLAN Ant 2 | 0.920                    | 0.417 | 1.337                           | 146.28                                  | 0.01                                   |                |
| Bluetooth         | 5 GHz WLAN Ant 1 | 0.023                    | 0.495 | 0.518                           | 21.51                                   | 0.02                                   |                |
| Bluetooth         | 5 GHz WLAN Ant 2 | 0.023                    | 0.417 | 0.44                            | 30.32                                   | 0.01                                   |                |
| 5 GHz WLAN Ant 1  | 5 GHz WLAN Ant 2 | 0.495                    | 0.417 | 0.912                           | 23.02                                   | 0.04                                   |                |
| LTE Band 7        | Bluetooth        | 0.771                    | 0.023 | 0.794                           | 140.15                                  | 0.01                                   |                |
| LTE Band 7        | 5 GHz WLAN Ant 1 | 0.771                    | 0.495 | 1.266                           | 157.52                                  | 0.01                                   |                |
| LTE Band 7        | 5 GHz WLAN Ant 2 | 0.771                    | 0.417 | 1.188                           | 144.48                                  | 0.01                                   |                |
| Bluetooth         | 5 GHz WLAN Ant 1 | 0.023                    | 0.495 | 0.518                           | 21.51                                   | 0.02                                   |                |
| Bluetooth         | 5 GHz WLAN Ant 2 | 0.023                    | 0.417 | 0.44                            | 30.32                                   | 0.01                                   |                |
| 5 GHz WLAN Ant 1  | 5 GHz WLAN Ant 2 | 0.495                    | 0.417 | 0.912                           | 23.02                                   | 0.04                                   |                |

|                                         |                                                                                                                                                                                                                                     |                               |                                                                                                 |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of  element</small> | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                                                  | DUT Type:<br>Portable Handset |                                                                                                 | Page 206 of 224                 |

**Table 12-23**  
**Body worn Back Side SAR to Peak Location Separation Ratio Plots**



|                                         |                                                                                                                                  |                               |                                                                                                 |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                               | DUT Type:<br>Portable Handset |                                                                                                 | Page 207 of 224                 |



## 12.7.2 Phablet Back Side SPLSR Evaluation and Analysis

**Table 12-24**  
**Peak SAR Locations for Phablet Back Side**

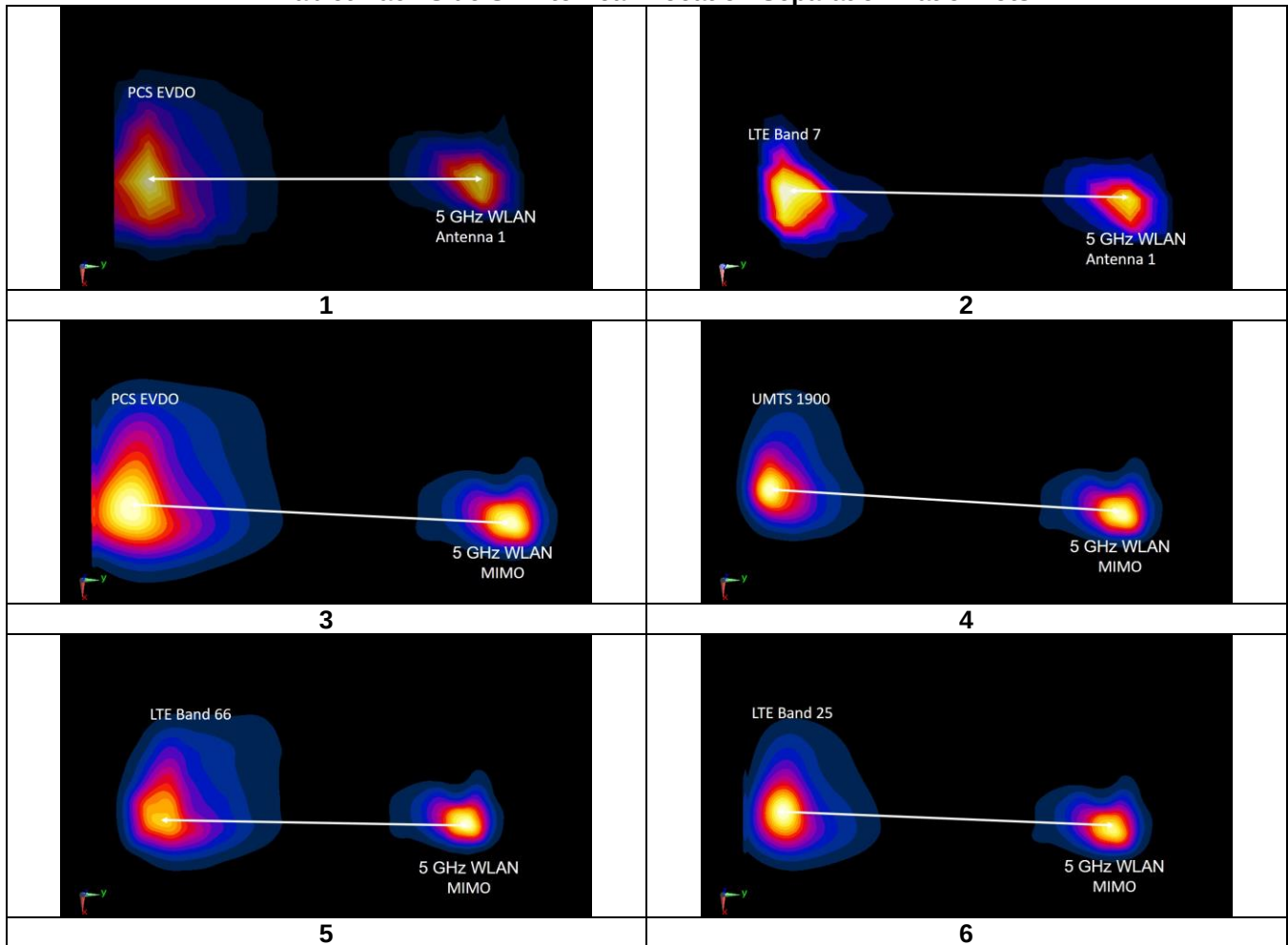
| Mode/Band         | x (mm) | y (mm) |
|-------------------|--------|--------|
| 5 GHz WLAN Ant 1  | -10.00 | 64.00  |
| 5 GHz WLAN MIMO   | 0.00   | 66.20  |
| PCS EVDO          | -2.00  | -84.50 |
| UMTS 1900         | -11.50 | -85.50 |
| LTE Band 66 (AWS) | -7.00  | -82.50 |
| LTE Band 25 (PCS) | 4.00   | -83.00 |
| LTE Band 7        | -8.20  | -71.20 |
| LTE Band 41       | -13.20 | -76.20 |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 208 of 224                 |

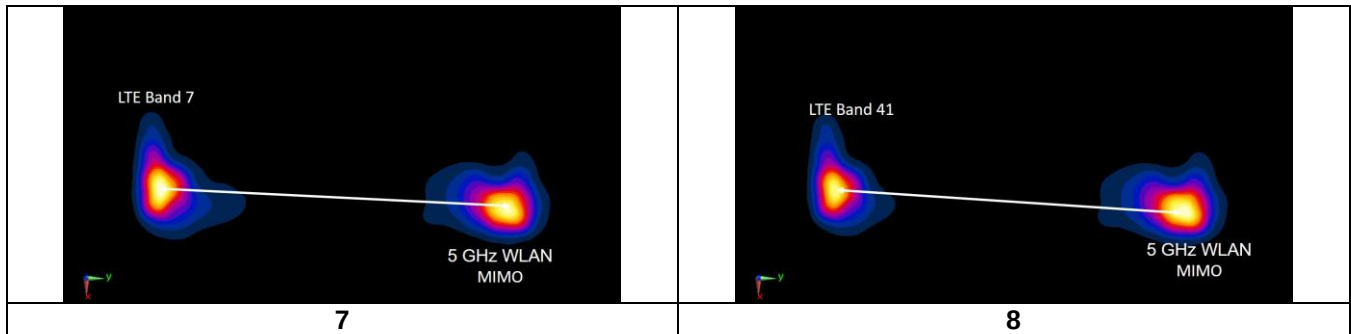
**Table 12-25**  
**Phablet Back Side SAR to Peak Location Separation Ratio Calculations**

| 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>                  | $(a+b)^{1.5}/D_{a-b}$ |             |
| PCS EVDO          | 5 GHz WLAN Ant 1 | 2.712                 | 1.561 | 4.273                     | 148.72                            | 0.06                  | 1           |
| LTE Band 7        | 5 GHz WLAN Ant 1 | 3.009                 | 1.561 | 4.57                      | 135.21                            | 0.07                  | 2           |
| PCS EVDO          | 5 GHz WLAN MIMO  | 2.712                 | 2.372 | 5.084                     | 150.71                            | 0.08                  | 3           |
| UMTS 1900         | 5 GHz WLAN MIMO  | 2.110                 | 2.372 | 4.482                     | 152.14                            | 0.06                  | 4           |
| LTE Band 66 (AWS) | 5 GHz WLAN MIMO  | 1.957                 | 2.372 | 4.329                     | 148.86                            | 0.06                  | 5           |
| LTE Band 25 (PCS) | 5 GHz WLAN MIMO  | 2.328                 | 2.372 | 4.7                       | 149.25                            | 0.07                  | 6           |
| LTE Band 7        | 5 GHz WLAN MIMO  | 3.009                 | 2.372 | 5.381                     | 137.64                            | 0.09                  | 7           |
| LTE Band 41       | 5 GHz WLAN MIMO  | 2.073                 | 2.372 | 4.445                     | 143.01                            | 0.07                  | 8           |

**Table 12-26**  
**Phablet Back Side SAR to Peak Location Separation Ratio Plots**



|                                         |                                                                                                                                                                                                |                               |                                                                                       |                                 |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       | <br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                             | DUT Type:<br>Portable Handset |                                                                                       | Page 209 of 224                 |



### 12.7.3 Phablet Back Side with Dual Display Accessory Position #1 SPLSR Evaluation and Analysis

**Table 12-27**  
**Peak SAR Locations for Phablet Back Side with Dual Display Accessory Position #1**

| Mode/Band         | x (mm) | y (mm) |
|-------------------|--------|--------|
| 5 GHz WLAN Ant 1  | -4.00  | 66.00  |
| 5 GHz WLAN MIMO   | -7.00  | 65.00  |
| UMTS 1750         | -7.20  | -80.70 |
| LTE Band 66 (AWS) | -11.00 | -76.90 |

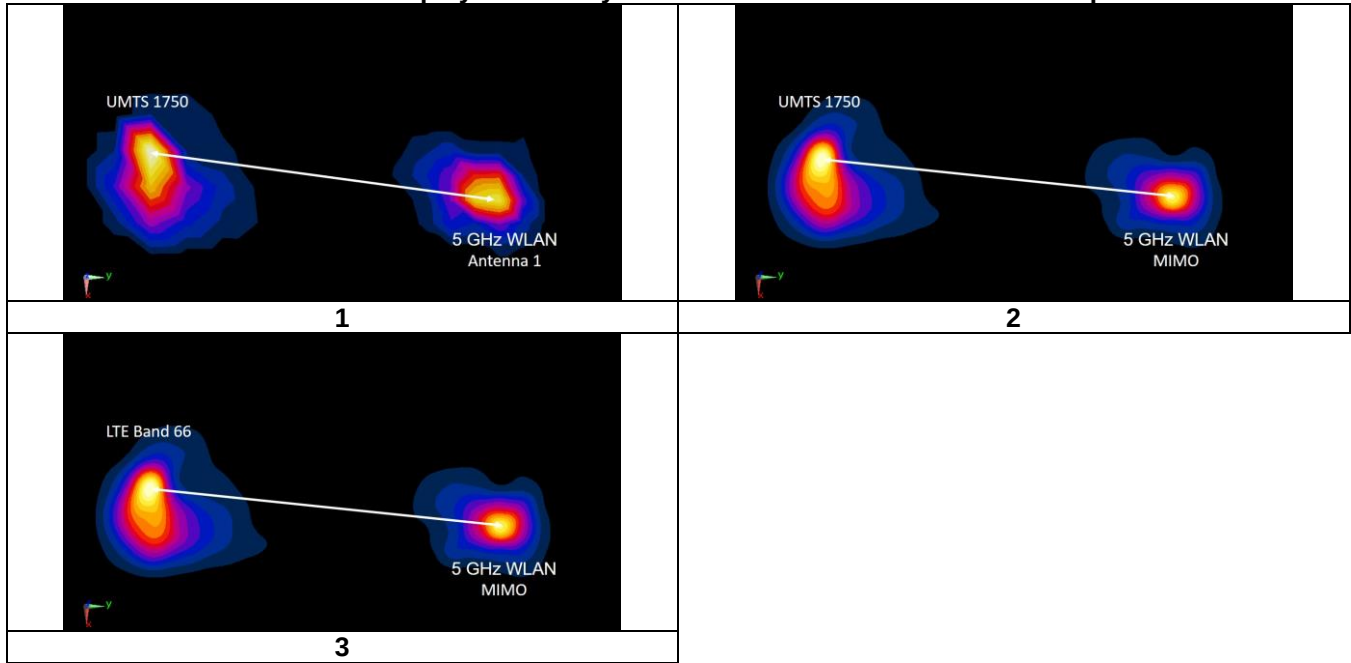
**Table 12-28**  
**Phablet Back Side with Dual Display Accessory Position #1 SAR to Peak Location Separation Ratio Calculations**

| 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> |             |
| UMTS 1750         | 5 GHz WLAN Ant 1 | 2.886                 | 1.142 | 4.028                     | 146.73                            | 0.06                                   | 1           |
| UMTS 1750         | 5 GHz WLAN MIMO  | 2.886                 | 1.403 | 4.289                     | 145.70                            | 0.06                                   | 2           |
| LTE Band 66 (AWS) | 5 GHz WLAN MIMO  | 2.644                 | 1.403 | 4.047                     | 141.96                            | 0.06                                   | 3           |

|                                         |                                                                                                                                                 |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset |                                                                                       | Page 210 of 224                 |

Table 12-29

Phablet Back Side with Dual Display Accessory Position #1 SAR to Peak Location Separation Ratio Plots



## 12.8 Simultaneous Transmission Conclusion

The above numerical summed SAR results and SPLSR analysis for all the worst-case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is 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 6.3.4.1.2.

|                                         |                                                                                                                                                                                                              |                               |                                                                                                 |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                                 | Page 211 of 224                 |

## 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 (~ 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                                 | Dual Display<br>Accessory<br>Configuration | Side   | Spacing              | Measured<br>SAR (1g) | 1st<br>Repeated<br>SAR (1g) | Ratio | 2nd<br>Repeated<br>SAR (1g) | Ratio | 3rd<br>Repeated<br>SAR (1g) | Ratio |
|                                          | MHz       | Ch.    |                               |                                         |                                            |        |                      | (W/kg)               | (W/kg)                      |       | (W/kg)                      |       | (W/kg)                      |       |
| 1900                                     | 1908.75   | 1175   | PCS CDMA                      | EVDO Rev. 0                             | N/A                                        | bottom | 10 mm                | 0.912                | 0.902                       | 1.01  | N/A                         | N/A   | N/A                         | N/A   |
| 2300                                     | 2310.00   | 27710  | LTE Band 30, 10 MHz Bandwidth | QPSK, 1 RB, 0 RB<br>Offset              | N/A                                        | bottom | 10 mm                | 0.813                | 0.811                       | 1.00  | N/A                         | N/A   | N/A                         | N/A   |
| 1750                                     | 1770.00   | 354000 | NR Band n66, 20 MHz Bandwidth | DFT-s-OFDM QPSK, 1<br>RB, 104 RB Offset | #1                                         | right  | 10 mm                | 0.953                | 0.923                       | 1.03  | N/A                         | 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 |                      |                             |       |                             |       |                             |       |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 212 of 224                 |

**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)                 |       |
| 1900                                     | 1908.75   | 1175   | PCS CDMA                      | EVDO Rev. 0                          | N/A              | bottom | 0 mm                   | 2.580              | 2.550                  | 1.01  | N/A                    | N/A   | N/A                    | N/A   |
| 2450                                     | 2510.00   | 20850  | LTE Band 7, 20 MHz Bandwidth  | QPSK, 50 RB, 25 RB Offset            | N/A              | bottom | 0 mm                   | 2.870              | 2.810                  | 1.02  | N/A                    | N/A   | N/A                    | N/A   |
| 2600                                     | 2560.00   | 21350  | LTE Band 7, 20 MHz Bandwidth  | QPSK, 50 RB, 25 RB Offset            | N/A              | back   | 0 mm                   | 2.660              | 2.620                  | 1.02  | N/A                    | N/A   | N/A                    | N/A   |
| 1750                                     | 1745.00   | 349000 | NR Band n66, 20 MHz Bandwidth | DFT-s-OFDM QPSK, 50 RB, 28 RB Offset | N/A              | right  | 0 mm                   | 2.720              | 2.600                  | 1.05  | N/A                    | N/A   | N/A                    | N/A   |
| 5250                                     | 5280.00   | 56     | 802.11n, 20 MHz Bandwidth     | OFDM, MIMO                           | 13               | back   | 0 mm                   | 2.130              | 2.120                  | 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.

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 213 of 224                 |

## 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 32 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 32 states.

The operational description contains more information about the design and implementation of the dynamic antenna tuning.

**Table 14-1**  
**UMTS/CDMA Supplemental Head SAR Data**

| Supplemental Head SAR Data         |            |                                    |            |
|------------------------------------|------------|------------------------------------|------------|
| UMTS B5                            |            | CDMA BC0                           |            |
| RMC                                |            | CDMA                               |            |
| Test Position                      | Left Cheek | Test Position                      | Left Cheek |
| Frequency (MHz)                    | 836.6      | Frequency (MHz)                    | 836.52     |
| Channel                            | 4183       | Channel                            | 384        |
| Measured 1g SAR (W/kg)             | 0.139      | Measured 1g SAR (W/kg)             | 0.152      |
| Average Value of Time Sweep (W/kg) |            | Average Value of Time Sweep (W/kg) |            |
| Auto-tune (State 8)                | 0.185      | Auto-tune (State 8)                | 0.188      |
| Default (State 8)                  | 0.186      | Default (State 8)                  | 0.179      |
| State 2                            | 0.167      | State 8                            | 0.179      |
| State 6                            | 0.170      | State 18                           | 0.113      |
| State 8                            | 0.186      | State 21                           | 0.050      |
| State 11                           | 0.108      | State 24                           | 0.033      |
| State 16                           | 0.078      | State 28                           | 0.036      |
| State 20                           | 0.056      | State 32                           | 0.018      |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset |                                                                                       | Page 214 of 224                 |

**Table 14-2**  
**LTE Supplemental Head SAR Data**

| Supplemental Head SAR Data              |            |                                            |            |                                            |            |
|-----------------------------------------|------------|--------------------------------------------|------------|--------------------------------------------|------------|
| LTE B71                                 |            | LTE B12                                    |            | LTE B13                                    |            |
| QPSK, 20 MHz Bandwidth, 1RB,50RB Offset |            | QPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset |            | QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset |            |
| Test Position                           | Left Cheek | Test Position                              | Left Cheek | Test Position                              | Left Cheek |
| Frequency (MHz)                         | 680.5      | Frequency (MHz)                            | 707.5      | Frequency (MHz)                            | 782.0      |
| Channel                                 | 133297     | Channel                                    | 23095      | Channel                                    | 23230      |
| Measured 1g SAR (W/kg)                  | 0.121      | Measured 1g SAR (W/kg)                     | 0.131      | Measured 1g SAR (W/kg)                     | 0.158      |
| 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)                    | 0.152      | Auto-tune (State 20)                       | 0.169      | Auto-tune (State 10)                       | 0.209      |
| Default (State 30)                      | 0.141      | Default (State 22)                         | 0.172      | Default (State 13)                         | 0.212      |
| State 4                                 | 0.014      | State 1                                    | 0.029      | State 10                                   | 0.207      |
| State 9                                 | 0.014      | State 5                                    | 0.027      | State 11                                   | 0.209      |
| State 13                                | 0.039      | State 7                                    | 0.027      | State 15                                   | 0.209      |
| State 26                                | 0.112      | State 9                                    | 0.069      | State 18                                   | 0.122      |
| State 27                                | 0.151      | State 14                                   | 0.054      | State 22                                   | 0.081      |
| State 31                                | 0.150      | State 20                                   | 0.170      | State 30                                   | 0.041      |

| Supplemental Head SAR Data                |            |                                            |            |
|-------------------------------------------|------------|--------------------------------------------|------------|
| LTE B14                                   |            | LTE B5                                     |            |
| QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset |            | QPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset |            |
| Test Position                             | Left Cheek | Test Position                              | Left Cheek |
| Frequency (MHz)                           | 793.0      | Frequency (MHz)                            | 836.5      |
| Channel                                   | 23330      | Channel                                    | 20525      |
| Measured 1g SAR (W/kg)                    | 0.123      | Measured 1g SAR (W/kg)                     | 0.153      |
| Average Value of Time Sweep (W/kg)        |            | Average Value of Time Sweep (W/kg)         |            |
| Auto-tune (State 16)                      | 0.160      | Auto-tune (State 8)                        | 0.218      |
| Default (State 13)                        | 0.164      | Default (State 8)                          | 0.218      |
| State 16                                  | 0.161      | State 3                                    | 0.199      |
| State 18                                  | 0.118      | State 7                                    | 0.128      |
| State 25                                  | 0.127      | State 8                                    | 0.218      |
| State 27                                  | 0.050      | State 10                                   | 0.128      |
| State 32                                  | 0.028      | State 17                                   | 0.181      |

|                                                |                                                                                                                                                 |                                      |                                                                                                 |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: ZNFG900UM                              |  <b>PCTEST</b><br><small>Proud to be part of element</small> | <b>SAR EVALUATION REPORT</b>         |  <b>LG</b> | <b>Approved by:</b><br>Quality Manager |
| <b>Document S/N:</b><br>1M2004150063-01-R1.ZNF | <b>Test Dates:</b><br>04/27/20 – 06/25/20                                                                                                       | <b>DUT Type:</b><br>Portable Handset | Page 215 of 224                                                                                 |                                        |

**Table 14-3**  
**NR Supplemental Head SAR Data**

| Supplemental Head SAR Data                                |            |
|-----------------------------------------------------------|------------|
| NR Band n5                                                |            |
| DFT-s-OFDM QPSK, 20 MHz Bandwidth,<br>50 RB, 28 RB Offset |            |
| Test Position                                             | Left Cheek |
| Frequency (MHz)                                           | 836.5      |
| Channel                                                   | 167300     |
| Measured 1g SAR<br>(W/kg)                                 | 0.106      |
| Average Value of Time Sweep (W/kg)                        |            |
| Auto-tune (State 8)                                       | 0.138      |
| Default (State 8)                                         | 0.138      |
| State 4                                                   | 0.127      |
| State 8                                                   | 0.138      |
| State 12                                                  | 0.083      |
| State 16                                                  | 0.066      |
| State 21                                                  | 0.039      |
| State 25                                                  | 0.097      |

|                                         |                                                                                                                                                 |                               |                                                                                                 |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset | Page 216 of 224                                                                                 |                                 |

**Table 14-4**  
**UMTS/CDMA Supplemental Body SAR Data**

| Supplemental Body SAR Data         |       |                                    |        |
|------------------------------------|-------|------------------------------------|--------|
| UMTS B5                            |       | CDMA BC0                           |        |
| RMC                                |       | CDMA                               |        |
| Test Position                      | Back  | Test Position                      | Back   |
| Spacing                            | 10 mm | Spacing                            | 10 mm  |
| Frequency (MHz)                    | 836.6 | Frequency (MHz)                    | 836.52 |
| Channel                            | 4183  | Channel                            | 384    |
| Measured 1g SAR (W/kg)             | 0.520 | Measured 1g SAR (W/kg)             | 0.567  |
| Average Value of Time Sweep (W/kg) |       | Average Value of Time Sweep (W/kg) |        |
| Auto-tune (State 8)                | 0.803 | Auto-tune (State 8)                | 0.867  |
| Default (State 8)                  | 0.807 | Default (State 8)                  | 0.859  |
| State 8                            | 0.807 | State 5                            | 0.850  |
| State 20                           | 0.279 | State 8                            | 0.859  |
| State 23                           | 0.204 | State 9                            | 0.754  |
| State 26                           | 0.459 | State 14                           | 0.485  |
| State 29                           | 0.177 | State 26                           | 0.487  |
| State 32                           | 0.106 | State 31                           | 0.144  |

|                                         |                                                                                                                                                                                                              |                               |                                                                                       |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 217 of 224                                                                       |                                 |

**Table 14-5**  
**LTE Supplemental Body SAR Data**

| Supplemental Body SAR Data                |        |                                           |       |                                           |       |
|-------------------------------------------|--------|-------------------------------------------|-------|-------------------------------------------|-------|
| LTE B71                                   |        | LTE B12                                   |       | LTE B13                                   |       |
| QPSK, 20MHz Bandwidth, 1 RB, 50 RB Offset |        | QPSK, 10MHz Bandwidth, 1 RB, 49 RB Offset |       | QPSK, 10MHz Bandwidth, 1 RB, 25 RB Offset |       |
| Test Position                             | Back   | Test Position                             | Back  | Test Position                             | Back  |
| Spacing                                   | 10 mm  | Spacing                                   | 10 mm | Spacing                                   | 10 mm |
| Frequency (MHz)                           | 680.5  | Frequency (MHz)                           | 707.5 | Frequency (MHz)                           | 782.0 |
| Channel                                   | 133297 | Channel                                   | 23095 | Channel                                   | 23230 |
| Measured 1g SAR (W/kg)                    | 0.356  | Measured 1g SAR (W/kg)                    | 0.376 | Measured 1g SAR (W/kg)                    | 0.411 |
| Average Value of Time Sweep (W/kg)        |        | Average Value of Time Sweep (W/kg)        |       | Average Value of Time Sweep (W/kg)        |       |
| Auto-tune (State 30)                      | 0.527  | Auto-tune (State 19)                      | 0.565 | Auto-tune (State 14)                      | 0.640 |
| Default (State 30)                        | 0.517  | Default (State 22)                        | 0.568 | Default (State 13)                        | 0.620 |
| State 9                                   | 0.161  | State 2                                   | 0.124 | State 1                                   | 0.462 |
| State 17                                  | 0.301  | State 11                                  | 0.242 | State 4                                   | 0.474 |
| State 19                                  | 0.430  | State 16                                  | 0.162 | State 6                                   | 0.484 |
| State 24                                  | 0.319  | State 19                                  | 0.562 | State 14                                  | 0.618 |
| State 30                                  | 0.517  | State 22                                  | 0.568 | State 20                                  | 0.313 |

| Supplemental Body SAR Data               |       |                                           |       |
|------------------------------------------|-------|-------------------------------------------|-------|
| LTE B14                                  |       | LTE B5                                    |       |
| QPSK, 10MHz Bandwidth, 1 RB, 0 RB Offset |       | QPSK, 10MHz Bandwidth, 1 RB, 49 RB Offset |       |
| Test Position                            | Back  | Test Position                             | Back  |
| Spacing                                  | 10 mm | Spacing                                   | 10 mm |
| Frequency (MHz)                          | 793.0 | Frequency (MHz)                           | 836.5 |
| Channel                                  | 23330 | Channel                                   | 20525 |
| Measured 1g SAR (W/kg)                   | 0.411 | Measured 1g SAR (W/kg)                    | 0.542 |
| Average Value of Time Sweep (W/kg)       |       | Average Value of Time Sweep (W/kg)        |       |
| Auto-tune (State 13)                     | 0.622 | Auto-tune (State 8)                       | 0.830 |
| Default (State 13)                       | 0.615 | Default (State 8)                         | 0.846 |
| State 9                                  | 0.601 | State 5                                   | 0.665 |
| State 13                                 | 0.615 | State 7                                   | 0.811 |
| State 15                                 | 0.599 | State 8                                   | 0.846 |
| State 17                                 | 0.581 | State 13                                  | 0.457 |
| State 27                                 | 0.221 | State 19                                  | 0.304 |
| State 31                                 | 0.15  | State 30                                  | 0.158 |

|                                         |                                                                                                                                                                                                              |                               |                                                                                                 |                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT         |  <b>LG</b> | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                                                                                           | DUT Type:<br>Portable Handset | Page 218 of 224                                                                                 |                                 |

**Table 14-6**  
**NR Supplemental Body SAR Data**

| Supplemental Body SAR Data                            |        |
|-------------------------------------------------------|--------|
| NR Band n5                                            |        |
| DFT-s-OFDM QPSK, 20MHz Bandwidth, 50 RB, 28 RB Offset |        |
| Test Position                                         | Back   |
| Spacing                                               | 10 mm  |
| Frequency (MHz)                                       | 836.5  |
| Channel                                               | 167300 |
| Measured 1g SAR (W/kg)                                | 0.440  |
| Average Value of Time Sweep (W/kg)                    |        |
| Auto-tune (State 8)                                   | 0.678  |
| Default (State 8)                                     | 0.678  |
| State 5                                               | 0.648  |
| State 8                                               | 0.678  |
| State 11                                              | 0.455  |
| State 18                                              | 0.45   |
| State 23                                              | 0.172  |
| State 29                                              | 0.146  |

|                                         |                                                                                                                                                 |                               |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFG900UM                       |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT         |  | Approved by:<br>Quality Manager |
| Document S/N:<br>1M2004150063-01-R1.ZNF | Test Dates:<br>04/27/20 – 06/25/20                                                                                                              | DUT Type:<br>Portable Handset |                                                                                       | Page 219 of 224                 |

| Manufacturer          | Model     | Description                                             | Cal Date   | Cal Interval | Cal Due    | Serial Number |
|-----------------------|-----------|---------------------------------------------------------|------------|--------------|------------|---------------|
| Agilent               | 85033E    | 3.5mm Standard Calibration Kit                          | 6/6/2020   | Annual       | 6/6/2021   | MY53402352    |
| Agilent               | 8594A     | (9kHz-2.5GHz) Spectrum Analyzer                         | CBT        | N/A          | CBT        | 3051A00187    |
| Agilent               | 86480     | (9kHz-40GHz) Signal Generator                           | CBT        | N/A          | CBT        | 3629J00587    |
| Agilent               | 8753ES    | Network Analyzer                                        | 3/5/2020   | Annual       | 3/5/2021   | MY40001472    |
| Agilent               | N9020A    | PXA Signal Analyzer (44GHz)                             | 6/12/2019  | Annual       | 6/12/2020  | MY52350166    |
| Agilent               | 8753ES    | S-Parameter Network Analyzer                            | 8/26/2019  | Annual       | 8/26/2020  | MY40000670    |
| Agilent               | 8753ES    | S-Parameter Vector Network Analyzer                     | 9/19/2019  | Annual       | 9/19/2020  | MY40003841    |
| Agilent               | E4432B    | ESG-D Series Signal Generator                           | 7/14/2019  | Annual       | 7/14/2020  | US40053896    |
| Agilent               | E4438C    | ESG Vector Signal Generator                             | 6/27/2019  | Annual       | 6/27/2020  | MY45093852    |
| Agilent               | E5515C    | 8960 Series 10 Wireless Communications Test Set         | 2/10/2020  | Annual       | 2/10/2021  | GB42230325    |
| Agilent               | E5515C    | Wireless Communications Test Set                        | 6/26/2019  | Annual       | 6/26/2020  | MY50267125    |
| Agilent               | N4010A    | Wireless Connectivity Test Set                          | N/A        | N/A          | N/A        | GB46170464    |
| Agilent               | N5182A    | MXG Vector Signal Generator                             | 6/27/2019  | Annual       | 6/27/2020  | US46240505    |
| Agilent               | N5182A    | MXG Vector Signal Generator                             | 7/10/2019  | Annual       | 7/10/2020  | MY47420800    |
| Amplifier Research    | 15S1G6    | Amplifier                                               | CBT        | N/A          | CBT        | 353468        |
| Amplifier Research    | 15S1G6    | Amplifier                                               | CBT        | N/A          | CBT        | 353469        |
| Anritsu               | MA24106A  | USB Power Sensor                                        | 8/5/2019   | Annual       | 8/5/2020   | 1827527       |
| Anritsu               | MA24106A  | USB Power Sensor                                        | 7/8/2019   | Annual       | 7/8/2020   | 1248508       |
| Anritsu               | MA2411B   | Pulse Power Sensor                                      | 8/8/2019   | Annual       | 8/8/2020   | 1339008       |
| Anritsu               | MA2411B   | Pulse Power Sensor                                      | 12/4/2019  | Annual       | 12/4/2020  | 1126066       |
| Anritsu               | ML2495A   | Power Meter                                             | 11/15/2019 | Annual       | 11/15/2020 | 1039008       |
| Anritsu               | ML2495A   | Power Meter                                             | 12/17/2019 | Annual       | 12/17/2020 | 941001        |
| Anritsu               | MT8820C   | Radio Communication Analyzer                            | 7/25/2019  | Annual       | 7/25/2020  | 6201240328    |
| Anritsu               | MT8821C   | Radio Communication Analyzer                            | 8/16/2019  | Annual       | 8/16/2020  | 6201144418    |
| Anritsu               | MT8821C   | Radio Communication Analyzer                            | 10/2/2019  | Annual       | 10/2/2020  | 6201664756    |
| Anritsu               | MT8821C   | Radio Communication Analyzer                            | 11/22/2019 | Annual       | 11/22/2020 | 6262044715    |
| Anritsu               | MT8821C   | Radio Communication Analyzer                            | 2/22/2020  | Annual       | 2/22/2021  | 6261895213    |
| Anritsu               | MT8821C   | Radio Communication Analyzer                            | 3/10/2020  | Annual       | 3/10/2021  | 6200801190    |
| Anritsu               | MT8862A   | Wireless Connectivity Test Set                          | 8/8/2019   | Annual       | 8/8/2020   | 6261782395    |
| Control Company       | 4040      | Therm / Clock/ Humidity Monitor                         | 10/9/2018  | Biennial     | 10/9/2020  | 181647811     |
| Control Company       | 4040      | Therm / Clock/ Humidity Monitor                         | 10/9/2018  | Biennial     | 10/9/2020  | 181647802     |
| Control Company       | 4352      | Long Stem Thermometer                                   | 6/26/2019  | Biennial     | 6/26/2021  | 192282744     |
| Control Company       | 4352      | Long Stem Thermometer                                   | 6/26/2019  | Biennial     | 6/26/2021  | 192282739     |
| Control Company       | 4352      | Ultra Long Stem Thermometer                             | 8/2/2018   | Biennial     | 8/2/2020   | 181292054     |
| Control Company       | 4352      | Ultra Long Stem Thermometer                             | 8/2/2018   | Biennial     | 8/2/2020   | 181292061     |
| Keysight              | 772D      | Dual Directional Coupler                                | CBT        | N/A          | CBT        | MY52180215    |
| Keysight Technologies | 85033E    | Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm) | 7/2/2019   | Annual       | 7/2/2020   | MY53401181    |
| Keysight Technologies | AT/N6705B | DC Power Supply                                         | CBT        | N/A          | CBT        | MY53001315    |
| Keysight Technologies | N6705B    | DC Power Analyzer                                       | 4/27/2019  | Biennial     | 4/27/2021  | MY53004059    |
| Keysight Technologies | U3401A    | Digital Multimeter                                      | 5/14/2020  | Biennial     | 5/14/2022  | MY57201470    |
| 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          | BW-N20W5  | Power Attenuator                                        | CBT        | N/A          | CBT        | 1226          |
| MiniCircuits          | BW-N20W5+ | DC to 18 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                 | 4014C-6   | 4 - 8 GHz SMA 6 dB Directional Coupler                  | CBT        | N/A          | CBT        | N/A           |
| Narda                 | 4772-3    | Attenuator (3dB)                                        | CBT        | N/A          | CBT        | 9406          |
| Narda                 | BW-32W2   | Attenuator (3dB)                                        | CBT        | N/A          | CBT        | 120           |
| Pasternack            | PE2208-6  | Bidirectional Coupler                                   | CBT        | N/A          | CBT        | N/A           |
| Rohde & Schwarz       | CWV500    | Radio Communication Tester                              | 6/26/2019  | Annual       | 6/26/2020  | 112347        |
| Rohde & Schwarz       | CWV500    | Radio Communication Tester                              | 6/26/2019  | Annual       | 6/26/2020  | 108843        |
| Rohde & Schwarz       | ZNL66     | Vector Network Analyzer                                 | 10/11/2019 | Annual       | 10/11/2020 | 101307        |
| Seokonk               | NC-100    | Torque Wrench 5/16", 8" lbs                             | 7/18/2019  | Annual       | 7/18/2020  | N/A           |
| SPEAG                 | DAK-12    | Dielectric Assessment Kit (10MHz - 3GHz)                | 11/12/2019 | Annual       | 11/12/2020 | 1121          |
| SPEAG                 | D1750V2   | 1750 MHz SAR Dipole                                     | 10/22/2018 | Biennial     | 10/22/2020 | 1150          |
| SPEAG                 | D1765V2   | 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 | 50080         |
| SPEAG                 | D1900V2   | 1900 MHz SAR Dipole                                     | 10/23/2018 | Biennial     | 10/23/2020 | 50149         |
| SPEAG                 | D1900V2   | 1900 MHz SAR Dipole                                     | 2/21/2019  | Biennial     | 2/21/2021  | 50148         |
| SPEAG                 | D2300V2   | 2300 MHz SAR Dipole                                     | 8/13/2018  | Biennial     | 8/13/2020  | 1073          |
| SPEAG                 | D2450V2   | 2450 MHz SAR Dipole                                     | 8/14/2019  | Annual       | 8/14/2020  | 719           |
| SPEAG                 | D2450V2   | 2450 MHz SAR Dipole                                     | 8/16/2018  | Biennial     | 8/16/2020  | 981           |
| SPEAG                 | D2450V2   | 2450 MHz SAR Dipole                                     | 9/11/2017  | Triennial    | 9/11/2020  | 797           |
| SPEAG                 | D2600V2   | 2600 MHz SAR Dipole                                     | 6/14/2019  | Biennial     | 6/14/2021  | 1064          |
| SPEAG                 | D5GHV2    | 5 GHz SAR Dipole                                        | 1/16/2018  | Triennial    | 1/16/2021  | 1057          |
| SPEAG                 | D750V3    | 750 MHz Dipole                                          | 3/11/2020  | Annual       | 3/11/2021  | 1054          |
| SPEAG                 | D750V3    | 750 MHz SAR Dipole                                      | 10/19/2018 | Biennial     | 10/19/2020 | 1161          |
| SPEAG                 | D750V3    | 750 MHz SAR Dipole                                      | 3/16/2020  | Annual       | 3/16/2021  | 1003          |
| SPEAG                 | D835V2    | 835 MHz SAR Dipole                                      | 1/13/2020  | Annual       | 1/13/2021  | 44132         |
| SPEAG                 | D835V2    | 835 MHz SAR Dipole                                      | 3/13/2019  | Biennial     | 3/13/2021  | 46047         |
| SPEAG                 | DAE4      | Dasy Data Acquisition Electronics                       | 7/11/2019  | Annual       | 7/11/2020  | 1323          |
| SPEAG                 | DAE4      | Dasy Data Acquisition Electronics                       | 7/11/2019  | Annual       | 7/11/2020  | 1322          |
| SPEAG                 | DAE4      | Dasy Data Acquisition Electronics                       | 9/17/2019  | Annual       | 9/17/2020  | 1323          |
| SPEAG                 | DAE4      | Dasy Data Acquisition Electronics                       | 1/13/2020  | Annual       | 1/13/2021  | 1530          |
| SPEAG                 | DAE4      | Dasy Data Acquisition Electronics                       | 1/13/2020  | Annual       | 1/13/2021  | 1558          |
| SPEAG                 | DAE4      | Dasy Data Acquisition Electronics                       | 3/12/2020  | Annual       | 3/12/2021  | 1368          |
| SPEAG                 | DAE4      | Dasy Data Acquisition Electronics                       | 4/15/2020  | Annual       | 4/15/2021  | 1407          |
| SPEAG                 | DAE4      | Data Acquisition Electronics                            | 12/5/2019  | Annual       | 12/5/2020  | 1533          |
| SPEAG                 | DAE4      | Dasy Data Acquisition Electronics                       | 6/20/2019  | Annual       | 6/20/2020  | 1334          |
| SPEAG                 | EX30V4    | SAR Probe                                               | 7/15/2019  | Annual       | 7/15/2020  | 7547          |
| SPEAG                 | EX30V4    | SAR Probe                                               | 7/16/2019  | Annual       | 7/16/2020  | 7410          |
| SPEAG                 | EX30V4    | SAR Probe                                               | 9/19/2019  | Annual       | 9/19/2020  | 7551          |
| SPEAG                 | EX30V4    | SAR Probe                                               | 12/11/2019 | Annual       | 12/11/2020 | 7570          |
| SPEAG                 | EX30V4    | SAR Probe                                               | 12/11/2019 | Annual       | 12/11/2020 | 7571          |
| SPEAG                 | EX30V4    | SAR Probe                                               | 1/21/2020  | Annual       | 1/21/2021  | 3589          |
| 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                                               | 4/21/2020  | Annual       | 4/21/2021  | 7357          |
| SPEAG                 | EX30V4    | SAR Probe                                               | 6/19/2019  | Annual       | 6/19/2020  | 7409          |

Notes: 1) Equipment was solely used during its calibration period 2) 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.

|                                                |                                                                                                                                                                                                              |                                      |                                                                                       |                                        |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: ZNFG900UM                              |  <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>1M2004150063-01-R1-ZNF | <b>Test Dates:</b><br>04/27/20 – 06/25/20                                                                                                                                                                    | <b>DUT Type:</b><br>Portable Handset | Page 220 of 224                                                                       |                                        |

## 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                             |                |

|                                         |                                                                                                                                  |                               |                                                                                                 |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
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## 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]

|                                         |                                                                                                                                                                                                              |                               |                                                                                                 |                                 |
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